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SPASMODIN

(W. J. Bush's Physiologically Pure Benzyl Benzoate).

IMPORTANT.

THE attention of the Medical Profession is directed to the remarkable results obtained by Dr. David I. Macht in the pharmacological investigation of this new antispasmodic, as summarised by him in a communication to the recent Seventieth Annual Session of the American Medical Association (Journal American Medical Association, 1919, 73, 599). At the same meeting Dr. Jennings C. Litzenberg read a communication on "The Use of Benzyl Benzoate in Dysmenorrhoea" (*ibid.* 601).

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March 5, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
	Chesebrough Manufacturing Co.'s Preps.:		
	"Vaseline"—		doz.
1/3	Analgic, tubes	1/3	11/-
1/3	Borated, small tubes	1/3	11/-
1/3	Camphorated ,, ...	1/3	11/-
1/3	Capsicum ,, ...	1/3	11/-
1/3	Carbolated ,, ...	1/3	10/3
1/-	,, Blue Seal, bots. ...	1/-	8/-
1/3	Mentholated, small tubes ...	1/3	11/-
9½d.	Perfd. White, Blue Seal, bots	9½d.	6/8
1/5	,, No. 1, M.C. ...	1/5	11/10
2/9	,, No. 2, G.S. ...	2/9	23/6
1/9	Hair Tonic, No. 1	1/9	15/-
3/-	,, No. 2	3/-	26/3
7d.	Pomade, Blue Seal, No. 1 ...	7d.	4/6
1/-	,, ,, No. 2 ...	1/-	8/4
9½d.	,, No. 1, M.C.	9½d.	6/9
1/3	,, No. 2, M.C.	1/3	11/4
9½d.	Cold Cream Jars, No. 1 ...	9½d.	6/9
1/-	,, ,, No. 2 ...	1/-	9/-
1/6	,, ,, No. 3 ...	1/6	13/-
5/6	,, ,, No. 4 ...	5/6	54/4
2/-	,, ,, No. 5 ...	2/-	18/6
2/9	,, ,, No. 6 ...	2/9	25/6
8d.	Comphor Ice, tins	8d.	5/9
8d.	,, tubes	8d.	5/9
1/3	Eucalyptol ,, ...	1/3	11/-
	Lofthouse & Saltmer's Preps.:		
1/-	Losall's Salt, 4-oz. tins	1/-	8/-
1/10	,, 8-oz. ,, ...	1/10	15/-
2/6	,, 8-oz. bots.... ...	2/6	20/-
1/6	**Neville's Eau de Cologne Cream**	1/6	18/6
2/6	,, ,, ,,	2/6	22/6
	(Less 2½% cash in 7 days.)		
2/6	**Palmolive Cold Cream,** Jars	2/6	20/-
1/3	,, ,, Tubes	1/3	10/-
1/3	,, Vanishing Cream, Tubes	1/3	10/-
2/-	,, Shaving Stick ...	2/-	16/-
2/-	,, ,, Cream ...	2/-	16/-
1/9	,, Talcum Powder ...	1/9	14/-
2/-	,, Rouge...	2/-	16/-
1/6	,, Lip Rouge	1/6	12/-
	Prichard & Constance's Preps.:		
1/6	"Amami" Compressed Powder	1/6	13/6
1/-	,, Cachous	1/-	9/-
1/9	,, Cream, Greasy ...	1/9	15/9
1/-	,, Cuticle Cream ...	1/-	9/-
9d.	,, Nail Polishing Stone	9d.	6/9
5/6	,, Perfume	5/6	49/6
6d.	,, Shampoo of Henna, each	6d.	gross 45/-
3/-	,, Shampoo of Henna, Box of 7	3/-	doz. boxes 27/-
			doz.
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1/6	,, Tooth Powder ...	1/6	13/6
2/-	"Kio" Bath Tablets	2/-	18/-
	(Special Display terms on application.)		

JOHN KNIGHT, LIMITED

A Successful Year.

The Annual General Meeting of John Knight, Limited, was held yesterday at the Great Eastern Hotel, Liverpool Street, Mr. John W. Hope, C.B.E., presiding.

The Chairman, in moving the adoption of the Report, said:—

I am glad to be able to report a general expansion in all Departments of the Company's business during the year under review. We are not now dependent upon any one trade for our income, and I think it is correct to say that each Department of the business has contributed its full share to the year's profits.

I do not propose to trouble you with details which, under the influence of a good dividend, may be wearisome, but would invite your attention to one or two items in the Balance Sheet.

RESERVES—STRONG FINANCIAL POSITION.

First of all, we will now have, if our proposals meet with your approval, an actual Reserve Fund of £100,000, which is invested outside of the business. Then we have charged against Profits a Depreciation Reserve of £61,129 4*s.* 7*d.*, while we charge all repairs to Revenue, so that the item of £251,737 for freehold land, buildings, plant, and machinery, is thereby substantially written down, whereas in the opinion of well-informed experts it might well be written up very substantially.

The same remarks might be applied to the item of £88,135 10*s.* 11*d.*, "other investments," and if we look at the figures for good-will, £68,000, it will be evident that this amount, which represents the original cost, has little relation to its present value.

You will notice an increase in stock of over £43,000, and I should like to say that the stock we held on the 30th November last and our purchases for forward delivery show to-day a satisfactory appreciation in value. Debts due to the Company are naturally heavier, being more than £120,000 over last year. Ample provision has been made for bad or doubtful debts, and the item of £267,230 can be regarded as a perfectly sound asset.

Our liquid assets, after providing for sundry creditors (including Excess Profits Duty), excluding freeholds, lands and buildings; plant, machinery, etc., amount to £574,426 6*s.* 11*d.*, or nearly £6,000 in excess of our entire capital, which you will probably consider satisfactory.

PROFIT-SHARING DISTRIBUTION.

The dividend we are asking you to confirm to-day will entitle all our profit-sharers to seven-and-a-half weeks' extra remuneration, which is equal to 15 per cent. upon their present rate of wages.

It may be desirable to explain that our profit-sharing scheme provides for every ½ per cent. in dividend paid over 5 per cent. on the Ordinary Shares our workers receive one half-week's extra wages. This is paid as to half in cash, and half in special certificates carrying the same dividend as is paid on the Ordinary Shares, thus giving all our helpers a real interest in the furtherance of the prosperity of the business.

We have good reason to believe that the broad-minded and liberal policy which the Shareholders of John Knight, Limited, have so long followed, is greatly appreciated, especially by those thoughtful, capable, and energetic men and women who form the backbone of a factory staff, as well as by the travellers, clerks, and others more particularly concerned in the selling side of the business. The cordial goodwill and co-operation of the whole staff is essential to secure efficiency, economy, and the smooth working of a large manufacturing business, and we believe our profit-sharing policy has helped materially in this direction.

NEW CLEANSING SOAP—"HUSTLER."

Our manufactures continue to enjoy the favour of the retailer as well as of the general public, and we have secured a considerable addition to our export trade in all our specialities. Since our last meeting we have introduced a new cleansing soap which, owing to its unusual detergent properties, we have named "Hustler," and have secured the necessary trade-mark for it in the United Kingdom and Colonies, and in all the important countries to which soap is exported. This soap is already much in favour, and is being sold as rapidly as it can at present be produced. It has not affected the sale of our sheet anchor, the Royal Primrose Soap, nor of any of our other specialities.

LORD LEVERHULME'S OFFER.

Since I dictated this speech we have been approached, as has already been indicated, by Lord Leverhulme, with whom I entered into negotiations on Monday last, which have resulted in an offer being made by Lord Leverhulme as detailed in the circular which was posted to each Shareholder on Wednesday evening. Notwithstanding the very strong and satisfactory position of the Company and its prospects I feel it is my duty to point out to the Ordinary Shareholders that under our existing constitution it would be very difficult, if not impossible, for us to pay a dividend of 25 per cent. on the Ordinary Shares, for the reason that after these shares receive a dividend of 5 per cent. the remainder of the profits earned has to be divided equally between the Deferred Shares and the Ordinary Shares.

Your Board has, therefore, unanimously agreed to recommend to you the acceptance of Lord Leverhulme's offer. It seems quite unnecessary for me to make any similar recommendation to the holders of the Deferred Shares.

I shall now ask Mr. Barnett to second the resolution, and before putting it to the meeting will be happy to reply, as far as I can, to any question any Shareholder may care to ask.

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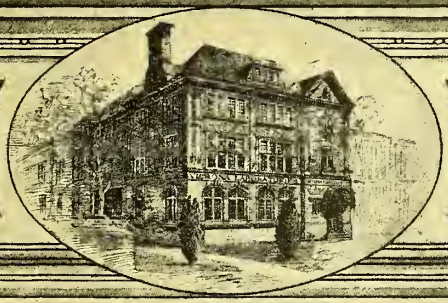

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QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

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and their SALTS.

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NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

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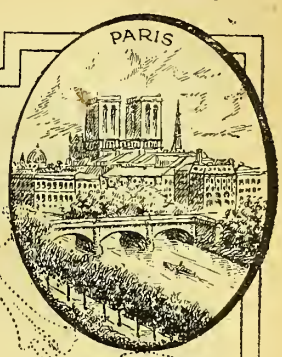

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R. W. GREEFF & Co. offer at lowest prices the following products :—

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Lemon Oil
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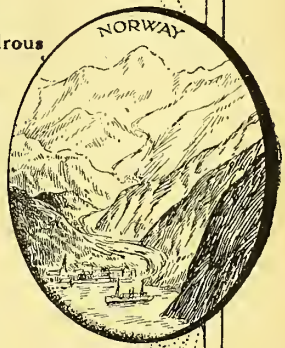
Theobromine
Thymol Crystals
Vanillin



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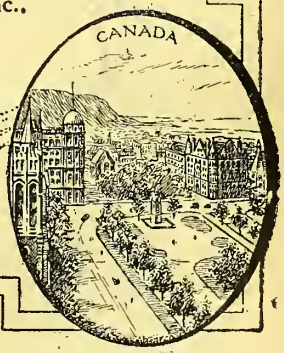

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GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

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Telegraphic Address: "JOB LIVERPOOL" Tel.: 1039 CENTRAL.
And at ST. JOHN'S, N.F. Established 1780.

"John Bull"

MALT EXTRACT

IS THE BEST!!!

Wholesale & Export Only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

Important Notice.

BOVRIL LIMITED

148-166, OLD STREET, LONDON, E.C.

ADVANCE IN PRICES

BOVRIL LIMITED beg to announce that from 1st March, 1920, the trade prices of Bovril will be as under :—

			Minimum Retail Prices.
1-oz. Bottles BOVRIL	per doz.	7/6	7½d.
2 „ „ „	„	14/-	1/2
4 „ „ „	„	25/6	2/1½
8 „ „ „	„	45/-	3/9
16 „ „ „	„	74/-	6/2
Small Bottles packed in 3-doz. boxes,	per box	9/9	3¼d.
2-oz. Jars INVALID BOVRIL....	per doz.	15/6	1/4
4 „ „ „ „	„	28/-	2/5
8 „ „ „ „	„	52/6	4/7

Subject to usual discount.

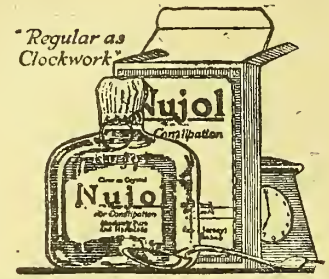
NEW TRADE BONUS SCHEME. 5% on Year's Purchases.

The usual Window Bill Display Bonus offered to retail traders on orders placed during October and November will be discontinued, and will be replaced by a bonus at the rate of 5% on the whole of the above quoted goods purchased either direct from the Company or through Wholesale Houses during the 12 months ending 28th February, 1921. The Bonus will be conditional upon the display of Bovril window bills for the usual period of six weeks at any time between 1st October, 1920, and 28th February, 1921, and on compliance with the Company's ordinary conditions of sale.

Indirect Buyers who desire to participate in the Annual Bonus should apply to Bovril Limited for registration card.

The Bonus must not under any consideration be deducted from Account, but will be paid by a Special Cheque.

N.B.—To avoid the great labour that would fall upon the Wholesalers if they had to keep a separate account for every customer, the Retailer is asked to retain a record of all purchases of the above-named goods made during the year ending 28th February, 1921, and immediately thereafter to forward the account (as his claim for the Bonus) to the Wholesalers from whom the purchases were made, for verification. Suitable forms are supplied free for the purpose, and will be forwarded on application to the Wholesalers or to the Head Office, or Branches of BOVRIL LIMITED. These forms need only be used for goods delivered from the Wholesaler's warehouse.



41½%

Profit—Regular as clockwork on **Nujol**, a P.A.T.A. line, retailing at **3/-** and **6/-**

This year millions of readers throughout the British Isles are being convinced of the need of **Nujol**. Among these readers are many customers of yours, they want better health—they want **Nujol.**

Get it and get more

Write for quantity discounts, the more you buy the more you make. The market for **Nujol** is one you cannot afford to overlook.

Stock **Nujol**—display it—take advantage of the **Nujol** National Advertising.

SPECIAL NOTE

In our last advertisement prices were incorrectly stated—the advanced retail selling prices are 3/- and 6/- as given above.

Nujol

TRADE MARK

FOR CONSTIPATION

Exceeds all B.P. requirements.

Sole distributors for the United Kingdom :

ANGLO-AMERICAN OIL CO., LTD.,
36 QUEEN ANNE'S GATE, LONDON, S.W.1.

For India : Muller & Phipps (India), Ltd., Bombay; Calcutta, Madras.

"Keep Nujol on the eye-line."

Maw's Page

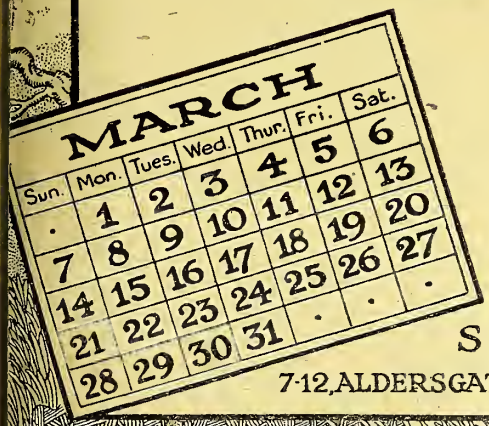
Puffs

EVEN the photographic reproduction does not convey an adequate idea of the beauty and charm of our delightful range of Puffs. Maw's "ELLEN TERRY" Series are made in our own Factory of finest plain, fancy, and shot silk and sateen bags, fitted with down pile centres. In boxes of assorted colours in the following varieties :—

	Nos. 1	2	3	4	
"Ellen Terry" Series.					
Plain Silk (pile centres)	6/-	7/6	8/3	9/-	doz.
Fancy Silk (" ")	7/3	8/6	10/3	1 /3	"
Shot Silk (down ")	-	-	23/9	28/6	"
Plain Silk (" ")	10/-	12/3	15/-	17/3	"
Fancy Silk (" ")	10/3	13/6	16/-	18/6	"
	Nos. 000	00	0		
Silk top...	7/3	8/3	9/9		doz.
	Nos. 1	2	3	4	
Silk top	10/9	12/6	14/6	15/9	"

This attractive sketch by Alfred Leete, the well-known artist, is reproduced from the 3-colour Showcard we are supplying with orders for Maw's "Ellen Terry" Puffs.

No. 438.
MARCH
6,
1920.



MARCH						
Sun.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.
.	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	.	.	.

S. MAW, SON & SONS, LTD
7-12, ALDERSGATE ST. LONDON, E.C.1, ENGLAND.

GERMOLENE

Trade Mark. Regd all Countries.

THE ASEPTIC SKIN DRESSING

AND

GERMOLETS

In Tablet form, for Blood and Skin Troubles.

Mr. Chemist—

We are busy—too busy to have to take on your job and execute orders from the public, but we can't afford to turn away business. Below is a selection from our mail, people want and will have Germolene and Germolets.

1/2/20. London, N.1.

I have tried to procure your Germolene at Shops in North and West London without success. I shall be glad therefore if you will be so good as to forward a tin to the above address for which please find enclosed P.O. value 1/3.

2 Feb. 1920.

Hereford.

Would you kindly forward me a box of your Germolets for which I enclose 1/3 for same.

I got a tin of your Germolene and I cannot get the Germolets. I tried ——and several other Chemists and they said they had not got them. I saw them advertised in our paper, "The Post."

Feb. 5/20.

Edgbaston.

I enclose P.O. for 3/- and shall be glad if you will send me a Tin of Germolene. I have tried at several Chemists in Birmingham, but have been unable to get it.

We want you to profit from the Sales our advertising creates—your success is our success—moreover a satisfied customer is your best asset!

ORDER SUPPLIES NOW!

PROVISION HAS BEEN MADE FOR PROMPT DELIVERY IN ANY QUANTITY. P.A.T.A. MINIMUM RETAIL PRICES 1/3 & 3/-. WHOLESALE HOUSES CAN SUPPLY AT ONCE

WINDOW SHOW TERMS.

Minimum orders, £10 assorted—Germolene, Veno's Lightning Cough Cure, Dr. Cassell's Tablets, etc. 5% allowance for Window Display, and *pro rata* larger orders.

2½% discount for cash in 30 days. **ALL GOODS CARRIAGE PAID, IN FREE BOXES.**

Sole Manufacturers and Distributors—

THE VENO DRUG CO., LTD.

Manufacturing Chemists,

MANCHESTER, ENGLAND.

Telegrams: "SEAWEED MANCHESTER." Telephone: 422 TRAFFORD PARK.

Make that Window Pay.

Veno's Lightning Cough Cure,

Dr. Cassell's Tablets

and

Germolene.

Special Window Show Offer

TERMS { Minimum Orders £10 assorted, less 2½% discount for cash in 30 days, and 5% extra discount for Window Show. Pro rata with larger orders.

NOTE.—All goods carriage paid in free boxes.

ADVERTISED & SOLD AT FACE VALUE.

Sole Manufacturers and Distributors —

The VENO DRUG Co., Ltd.

Manufacturing Chemists,

MANCHESTER, ENGLAND.

Telegrams: "SEAWEED MANCHESTER." Telephone: 422 TRAFFORD PARK.

Do You Put "Safety First"?

If so, you'll remember that long ago it was said that "There's safety in numbers."

Further, it has recently been pointed out that "There is more than safety in numbers—there is *power*."

Which is very true, but the power that undoubtedly does exist in numbers is latent, negative or static until organisation breathes life into it; then it becomes active, positive or dynamic!

Men united by a common purpose—as in Ucal—discover unsuspected power which is ample for the achievement of the end they have in view.

Briefly, that end in Ucal is "Better Business."

Ucal
The Sign of Reliability

UCAL, CHELTENHAM.

AYRTON'S WEEKLY PAGE 15

The brilliant Colours of the rainbow

are reflected in the materials which have been dyed with "Eagle" Dyes.

There is no uncertainty as to what the ultimate shade will be when you use "Eagle" Dyes, because they never dye murky colours but clear and brilliant as the rainbow.

Moreover, "Eagle" Dyes are permanent and will not injure the most delicate fabrics. These points commend their use to the discriminating housewife.

"Eagle" Dyes
for WOOL and SILK.
For COTTON.

SHADES—

Black.	Light Green.
Red Rose.	Dark Green.
Claret Red.	Light Blue.
Pink.	Navy Blue.
Orange.	Lavender.
Brilliant Yellow.	Dark Brown.

P.A.T.A. Prices—
Retail - 7½d. per pkt.
Wholesale 60/- per gross

AYRTON, SAUNDERS & Co. Ltd. LIVERPOOL

Six Seasonable Specialities

There is still plenty of winter trade to be done, and there is more than one reason why stocks should not be allowed to run low. Orders for the reliable preparations detailed below can now be promptly executed.

	Minimum Retail Prices	
Cod Liver Oil Emulsion, P.,D. & Co.	*5 oz. 1/8* *8 oz. 2/6* *16 oz. 4/6*	Medical men specify "P., D. & Co." Emulsion on account of its stability, palatability, and guaranteed 33% content of non-freezing cod liver oil.
Stimulating Embrocation	*4 oz. 1/6*	An emulsion of oil of origanum, camphor and rectified oil of turpentine, with ammonia, issued in glass-stoppered bottles of distinctive shape.
Mentholated Bronchial Lozenges	*Tin of 36* *1/-*	Pharmacists who have given prominence to these tablets find that one sale, by repeats and personal recommendation, makes many.
Improved Bronchial Lozenges	*Box of 36* *9d.*	A popular tablet, which, like the above, contains no narcotic or astringent; they are therefore safe for children or for continued use.
Oral Antiseptic Tablets	*36 1/3* *100 2/-*	A pleasant combination of formaldehyde and menthol with a suitable base. The convenience of the vest-pocket vial (36) is very generally appreciated.
Inhalone	*1/3*	An anti-bacterial soothing and emollient nasal application. Issued in a collapsible tube with an elongated nozzle to facilitate direct application.

It may also be desirable to replenish stocks of Boroseptic Ointment, Capsolin, Euthymol Cold Cream, Euthymol Cream, Euthymol Talcum Powder, etc.

A card will bring you a list with retail and wholesale prices of specialities corrected to date.

PARKE, DAVIS & CO.

50-54, Beak Street, LONDON, W.1.

Laboratories : : Hounslow, Middlesex.

"THE THING" IN SPRING

FOR the Pharmacist, "Mineral Spring" is "the thing" in Spring—and in Summer, Autumn and Winter too—because it puts him beyond the reach of unrestricted unprofessional "Health Salt" competition once and for all.

"Mineral Spring" Health Granules are supplied to Chemists and Druggists only. They retail at 1/- and 2/- per tin and yield a generous protected margin of profit. Retailers of "Mineral Spring" have no grocery or other unprofessional and often cut price competition to face.

"Mineral Spring" Health Granules keep better, are more active medicinally, give a longer and more sparkling effervescence and are in every way more dependable than the average Health Salt.

There is a fresh Kerfoot announcement in the "Chemist and Druggist" every week, usually on Page 17.

THOMAS KERFOOT & Co Ltd.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

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"ZORBO" Regd.
PNEUMONIA JACKETS.

PRICES NOT *ADVANCED.*

While present Stock lasts we can supply at following prices:

No. 1 -	9/6 per doz.	No. 4 -	20/6 per doz.
„ 2 -	12/- „	„ 5 -	25/- „
„ 3 -	16/6 „	„ 6 -	30/- „

Prices MUST Advance Eventually.

ORDER NOW.

ROBERT BAILEY & SON, LTD.

SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

CGCo Ltd TRADE MARK

Plasters

We invite applications for copies of our new Price List for Plasters which indicates the range of lines we manufacture, including:

ADHESIVE. Rubber Combination. Spools, tins, or rolls.

POROUS. All kinds.

MARGINAL. A full range.

MUSTARD. On cloth or paper, in envelopes or tins.

ZINC OXIDE. Spools or tins.

COURT PLASTERS on cloth or silk. Plain or perforated etc. etc.

CUXSON, GERRARD & CO. LD.
OLDBURY, near BIRMINGHAM.

Export and Colonial inquiries specially invited.

N. V. Chemische Fabriek "Naarden"

Bussum, Holland.

MANUFACTURERS OF AROMATIC CHEMICALS, FLOWER OILS & TERPENELESS ESSENTIAL OILS.

Aldehydes, C8-C14	Coumarin, 100%	Lily of the Valley
Benzyl Benzoate	Diphenylmethane	Methyl Anthranilate
Bromstyrol, 100%	Geraniols, Specialities	Musk Xylol
Citral	Geranium Bourbon, Synth.	Paracresol Methylether.
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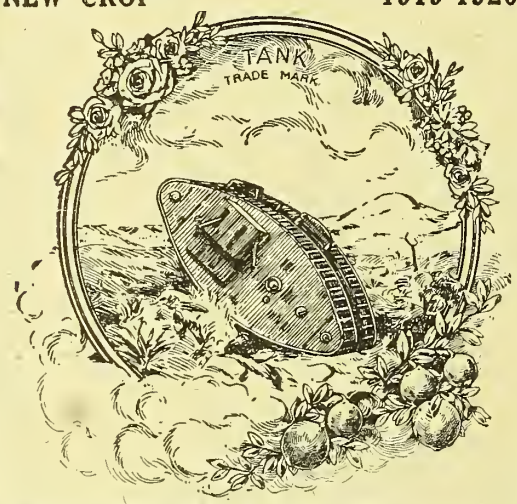
Please apply to our Sole Agents for Quotations and Samples—

GERALD BROMAGE & CO., 9-10 Foster Lane, E.C. 2.

Telephone: City 4719. Telegrams: "Gerbromco, Cent, London."

NEW CROP 1919-1920



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TERPENELESS ESS. OILS

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SWEET ORANGE,
BITTER ORANGE,
LEMON, MANDARIN,

NEROLI "D'ITALIA"

The Best on the Market.

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ALTSTETTEN—ZURICH.

Loritol (Muguet), Ionone (Violette), Geraniol, Citronellol, Rhodinol, Chirassol, Phenylethyl, Alcool, etc.

Specialities for fine perfumery

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ESSENTIAL OILS.

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FLOWER OILS.

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HOLLAND. FRANCE.

SICILIAN

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ORANGE - MANDARINE.

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THE OILS THAT HAVE A LONG REPUTATION FOR QUALITY.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any :: :: :: analysis as to purity. :: :: ::

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Telephone: HOP 898.

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BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

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THE FIRM WITH THEIR OWN HOUSE IN SPAIN.

SPIKE LAVENDER

PENNYROYAL OIL

RUE OIL.
NEROLI (BIGARADE)
LEMON.
JUNIPERBERRY OIL.
GARLIC OIL.

CADE OIL.
LAVENDER (10/12 ESTERS)
ORANGE.
JUNIPERWOOD OIL
WHITE THYME.

LONABARC BRAND

SWEET FENNEL

BITTER FENNEL

PURE SPANISH ESSENTIAL OILS.

5 FINSBURY SQUARE, LONDON, E.C.2.

Grams: "Lonabarc, Finsquare, London." Phone: London Wall 9020.

AMERICAN
ESSENTIAL OILS

"MOHAWK" BRAND
OIL PEPPERMINT (Natural)

OIL CEDARWOOD — OIL HEMLOCK
OIL CEDARLEAF — OIL BIRCH

Heliotropine Crystals C.P.
Vanillin C.P.
Coumarin C.P.
Oil Wormseed, American.
Oil Wintergreen Leaf U.S.P.

MAGNUS, MABEE & REYNARD, Inc.
Essential Oils, Chemicals and Drugs,
NEW YORK - - U.S.A.
Cables—"MAGLAUR."

Cresp-Martinenq
(Grasse, France),
Manufacturers of
ESSENCES & PRIME MATERIALS for MANUFACTURING
PERFUMERS, CONFECTIONERS, ETC.

SYNTHETICS
ARTIFICIAL VIOLETS (MYRIONE)
Artificial Musk

INQUIRIES SOLICITED. LARGE STOCKS

ROBERT FERBER, LTD.
98/104 OAKLEY STREET,
LONDON - S.E.1.

Agents for the UNITED KINGDOM & CANADA.

PARFUMERIE SHYB PACAUT et CIE

De Grand Luxe *PARIS.*

Registered Trade Mark

¶ The House of Pacaut et Cie of Paris beg to announce that their famous SHYB Products are now available for the English Market, and that their general representative for the U.K. (René Paindessous) is now carrying stocks of all their leading lines in London.

¶ The SHYB Parfumerie of Pacaut et Cie is a scientific production, distilled from the choicest blooms, and possessing the charm of bouquet and fragrance associated only with the most highly distilled scents.

¶ Please write for particulars and price list of the many varieties of perfumes. Exceptionally good trade terms. A large public demand is being created by press advertising.

¶ OTHER PACAUT PRODUCTS.—Pâte Dentifrice, Crême pour Visage, Poudre de Riz, Savon, Eau de Toilette, Lotion pour Cheveux.

WHOLESALE ONLY.

RENÉ PAINDESSOUS (General Representative for the U.K.)

PREMIER HOUSE, 150 Southampton Row, LONDON, W.C.1

TELEPHONE: MUSEUM 1178.

RAOUL FRERES

Invite your inquiries for the following:

DRUGS, CHEMICALS (Fine Photographic), HERBS, ROOTS and LEAVES, ESSENTIAL OILS, PERFUMERY, Aniline Dyes.

RAOUL FRÈRES, Wholesale & Export Drug & Chemical Manufacturers

Holborn Viaduct - LONDON, E.C. 1

Telephone No.: Central 8728. *Price List sent on application.*

WILLIAMSON BROS.

Puffs, Combs, Brushware, Manicure Sets & Sundries.

Extract from C. & D. of Jan. 10th - - - "They have been able to obtain some lines which show excellent value for money."

54 LOWER THAMES STREET, E.C.3.

Phone: Avenue 5827

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)

NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American), VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3.

Wholesale Houses only supplied.

Stocks of **OLIVE OIL** are very short

and it is exceedingly difficult to get further supplies owing to export restrictions.

Cover your requirements at once.

Finest French. The best quality on the market.

Finest Spanish. Cream Edible.

Finest Pharmaceutical B.P. Under 2% acidity.

Prices are rising, and in accordance

CASTILE SOAPS

will be dearer. We can offer

WHITE B.P. MOTTLED

LOWEST PRICES. HIGHEST QUALITY.
STRICTLY WHOLESALE. SAMPLES, PRICES AND FULL PARTICULARS ON APPLICATION.

F. CHIESMAN & CO.,

59 ST. MARY AXE - LONDON, E.C.3.

Telegraphic Address: "PALUSTRIS, LED, LONDON."
Telephone: - AVENUE 63 (2 lines), 6994.

AND AT LIVERPOOL, GLASGOW, BRISTOL, ETC.

A WONDERFUL SUCCESS!!!

CRÈME
to retail at
1/3 2/6 3/9

De Luzy

POUDRE
to retail at
10d. 1/9 3/3

Orders and inquiries have poured in since the announcement of this excellent line

Made by a Paris firm who turn out 20,000 unities a day.

To be Advertised by Press & Poster

Shows 50% Profit on Cost.

W. H. CALNAN & CO., 30-32 Ludgate Hill, LONDON, E.C. 4

G. W. SPARKE,

Milan Rome Turin
and
77 Chancery Lane
LONDON, W.C. 2
Telephone: Holborn 4845.

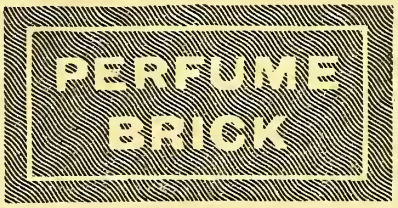
CREAM OF TARTAR
99½ per cent.
TALCUM POWDER
FLORENTINE ORRIS ROOT
ITALIAN OLIVE OIL
ESSENTIAL OILS
etc. etc.

Write for Quotations.

SALES
BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.
On the P.A.T.A.
Retail Price ***6d.***

Of the Makers:
WILLIS, LOW & DRUIFF, LTD.,
6 Mortimer St., London, W.
AND ALL WHOLESALERS.

WHOLESALE AND EXPORT ONLY SUPPLIED.

PUFFS. COMBS. PUFF-BOXES.

Caustic Pencils. Capping Skins.

Best French Cutlery. Turnery Articles.

All Manicure Requisites.

THEO. VAN DER HEYDEN 118-122 Holborn, E.C.1 and 17 Rue de la Grange-Bateliere Paris.

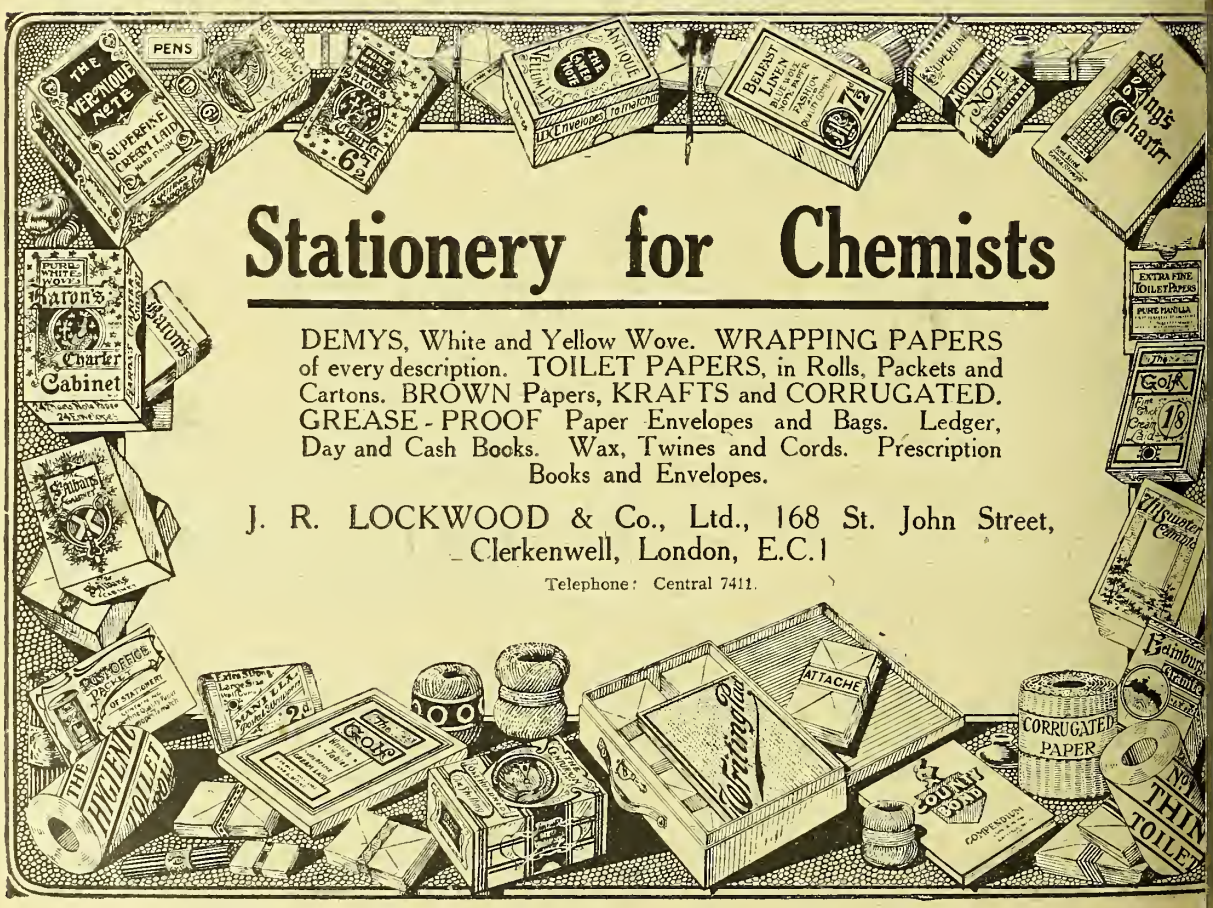
PHONE: HOLBORN 1873.

FACE CREAM. TOOTH POWDER. NAIL POLISH
„ POWDER. „ PASTE. HAIR CREAM
BRILLIANTINE, Solid and Liquid. PERFUMES
VIOLET POWDER. TALCUM. TOILET OATMEAL
SHAMPOO POWDER & LIQUID. MASSAGE CREAM

Your own formula prepared, or we can supply ingredients if desired.
Send for samples and quotations.

A. CONNELL & CO., 3 Jewry Street, LONDON, E.C. 3

PHONE—AVENUE 1945.



"SANITAS"

IMPORTANT NOTICE TO THE TRADE

INCREASED PROFIT ON NEW PRICES

As from March 1st, 1920, the new retail prices for "Sanitas Fluid" will be as follows:—

Large bottles **2/6** each. Trade rate **24/-** doz.
Small " **1/3** " " " **12/-** "

less usual discounts for cash and quantities.

The trade are invited to co-operate with us in putting the new prices into force at once. New Price-labels to be attached to old stock will be sent free on request to

THE "SANITAS" CO., LTD.,
LOCKSLEY STREET, LIMEHOUSE, LONDON, E.14.

Exclusively for Chemists

PRICE'S ZINCO-CREAM SOAP

IN BLACK AND AMBER PACKAGE

Reserved exclusively for Chemists

Price's Zinco-Cream Soap

has proved to be a popular, profitable and ready-selling article.
The Composition of

Zinco-Cream Soap

(Oxide of Zinc, Sulphur and Lanoline), renders it most suitable for Nursery use and for the treatment of delicate and sensitive skins.

In 3, 6 and 12 Tab. Boxes **An Ideal Spring Toilet Soap** **With a most effective showcard**

Further details on application, with sample if desired.

PRICE'S Battersea, LONDON.S.W.11.

It pays you to link up with Gibbs Advertising

DURING the recent "John Bull" window-dressing competition many of our customers made a point of tastefully exhibiting the Gibbs Toilet Series, with astounding results. The following extracts are taken at random from amongst the many appreciative letters received from the trade—we will leave them to speak for themselves

"I started the Display with 6 doz. of Gibbs Dentifrice in the window and 3 doz. for stock. At the end of the week I had about 1 doz. and a half left. For a district like this I consider that remarkably good. Of course, I sold quite a lot of their other preparations such as Shaving Sticks, Shampoo Powders, etc., but of these I did not take stock."

"The display has been surprisingly effectual, as sales of Gibbs Dentifrice have surpassed all previous ones for this article. I should think we sold a usual three months' amount during the show, and the sales are still going strong."

This is proof conclusive that the Gibbs Series are known to the public by virtue of the strong and plentiful advertising. It but remains for you to link up with that advertising by displaying the Gibbs Series of Toilet Articles and Showcards; then the public will quickly recognise you as a regular stockist, with results that will exceed your best expectations.

Gibbs March Announcements will appear in these influential media:

SCIENTIFIC PRESS.

British Dental Journal.
Dental Record.
Dental Practitioner.
British Journal of Dental Science.
Dental Surgeon.

NATIONAL PRESS.

Daily Mail.
Daily Mirror.
Daily Sketch.
Daily Chronicle.
Evening News.
Punch (2 colours).
Coming Fashions.
John Bull.
Passing Show.
London Opinion.
Illustrated London News (2 colours).
Sphere (2 colours).

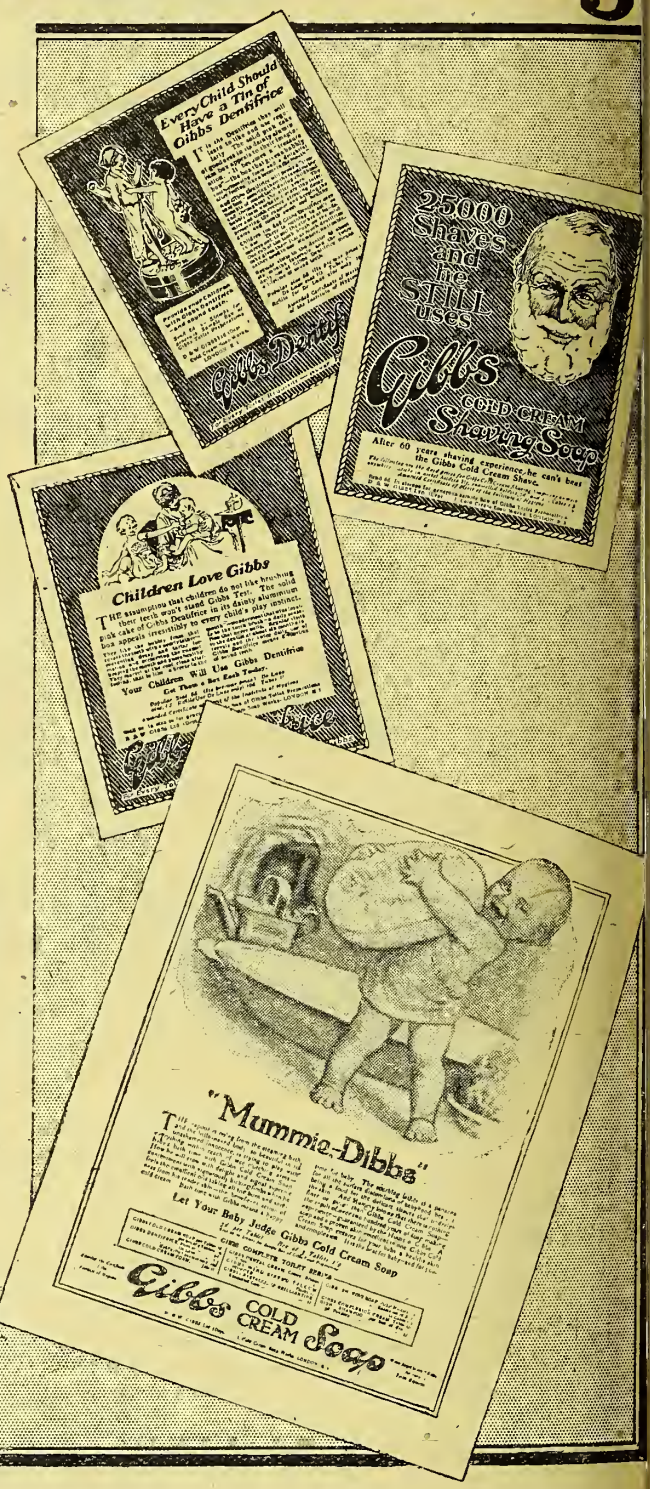
PROVINCIAL PRESS.

Manchester Evening Chronicle.
Newcastle Evening Chronicle.
Edinburgh Evening Dispatch.
Dundee Evening Telegraph.
Cardiff Evening Express.
Glasgow Evening Times.
Yorkshire Evening Post.
Yorkshire Telegraph and Star.

Appealing to upwards of TEN MILLIONS of readers throughout the United Kingdom

Watch for April Announcements.

D. & W. GIBBS Ltd. (Dept. S3), COLD CREAM SOAP WORKS, LONDON, E.1.



Gibbs

Royal Vinolia Shaving Stick

ROYAL Vinolia Shaving Stick is a High-class Shaving Soap, producing an exceptionally soothing and creamy lather which does not dry on the face. It is well advertised, is a quick seller, and yields a substantial profit.

Retailed at* 1/3 *per Stick.

If your customer prefers a Shaving Powder, advise him to use ***Royal Vinolia Shaving Powder.*** *It saves time in shaving and does not cake.* ***Retailed at*** *9d. & 1/3 per tin.*

The name Royal Vinolia on any toilet article you display is a guarantee to your customers of its purity and excellence.

VINOLIA COMPANY LTD LONDON.

Office and Works: BEBINGTON, CHESHIRE.

R V 430—29a

Mr. Fred BARNES, writing, from the London Palladium, says:—"Cinema Soap is without question the best and most delightful soap for the skin I have ever used, whilst Cinema Dentifrice is a wonderful preparation. For a long time I have been trying to discover a dentifrice which actually does whiten the teeth without injury. Hundreds of preparations claim to do this, but all they really do is to polish up the surface. I have used Cinema Dentifrice with splendid results. Not only does it make the teeth snowy white, but it has, I find, a tonic effect on the throat, a fact very important to all artistes. I think it is a wonderful preparation, and gladly recommend it to my brother and sister artistes.—Faithfully yours, FRED BARNES."

Miss VIOLET VANBRUGH and hundreds of other well-known stars use and recommend these super-toilet specialities. They are the latest and best in the world.

London's Famous Stars

Use and Recommend Fragrant

CINEMA SOAP

The Cream Soap "Exquisite"

WILL MAKE YOUR FACE A PICTURE

Trade Mark Copyright at home and abroad

Our Special Offer

Cinema Soap is wrapped and packed three tablets in a box which retails at 2/6, single tablets sell at 10½d. each. Our price is 22/6 per dozen boxes. Every Chemist sending for one dozen boxes *within 14 days* will receive

Three dozen Cinema Crushed Rose Face Powder Free, together with sale cards, cinema photos, and advertising matter; also we will send, by special arrangement with the Amalgamated Press, Ltd., 500 copies of "The Picture Show" free of charge. Just figure this value out and send without delay. Cross cheques and P.O.s.

THE CINEMA SOAP COMPANY, Ltd.,
(Dept. 22) 22 Finsbury Park Rd., London, N.4.

IT PAYS

to specialise in Hair Beauty Culture.

THE business is easily handled, speedily developed and attracts a really high-class clientèle. We give you all particulars how to initiate the new line and supply Camilatone specialities for the hair treatment. These form a complete outfit for establishing a business as a hair beauty specialist. Whether in the saloon or as a profitable counter line, Camilatone will quickly become your leading line, so great is the demand for it.

IT IS SIMPLE TO SELL, SHOWS A GOOD MARGIN OF PROFIT, WE ASSIST YOU IN DEVELOPING THE BUSINESS AND HELP YOU WITH VIGOROUS ADVERTISING.

Camilatone

puts Sunshine in the Hair.

Write to-day for a copy of the booklet "Hair Beauty Hints," which will be sent post free with full particulars and Trade Terms for our specialities, including Camilatone Tonic Shampoos.

CAMOMILE TONIC CO.
16 Lichfield Road, London, N.W. 2.

A. GIDLOW & CO.
(ESTABLISHED 1896.)
BROOM LANE, LEVENSHULME, MANCHESTER.

MANUFACTURERS OF

SHAVING CREAMS

Packed in 1 lb., 2 lb., 7 lb. Boxes and 56 lb. Cases.

Also Packed in Collapsible Tubes.

Proprietors and Manufacturers of

RENARD'S POMADE HONGROISE.

Samples and Prices on application.

Wholesale only.

No. 2.
ANZORA CREAM for greasy scalps and ANZORA VIOLA for dry scalps, of all wholesalers.

DISPLAY SHOWCARDS and increase your sales.

We will forward you the showcard illustrated if you will write to us stating the number you require. Besides selling quickly and easily Anzora gives you a good margin of profit. Do not stock substitutes. Trade terms on request.

ANZORA

Masters the Hair.

Anzora Perfumery Co., Willesden Lane London, N.W.6.

Jackel's Cream"

(without Grease)
for THE HAIR
Sold everywhere

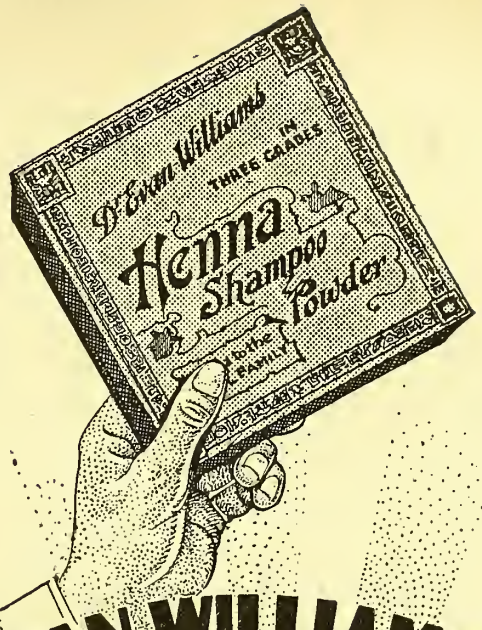
Established 1883.

"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

CRYSTALLISED CREAM
1/9 2/6
Trade Mark attached to each bottle.

Jackel et Cie (of Paris) Ltd.
Sauchiehall Street
GLASGOW



EVAN WILLIAM'S ORIGINAL Henna Shampoo

Your Customers will insist on the
Evan Williams'
HENNA
SHAMPOO
having been taught by experience. Are you ready to meet their demands?
Stock moves freely at a handsome profit.

Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

The EVAN WILLIAMS CO., LTD.,
18 & 18a, Onle St., Foley St., London, W.1.

B

PROFITABLE BUSINESS

CAN BE DONE IN

Toilet Preparations

PROVIDED THE QUALITY, GET-UP, AND PRICES ARE RIGHT.

OURS ARE

Let us send you a sample of any one of the undermentioned Preparations:

A postcard will bring it, together with a complete set of labels, price list and our special offer of a handwritten showcard.

Brilliantines (clear or with spirit). Bay Rum. Toilet Paraffin. Bay Rum and Cantharides. Violet Oil. Hair Cream. Dry Shampoo (liquid). Cold Cream. Hair Tonic. Skin Cream. Shampoo Powders (Wet, Dry and Henna). Solidified Brilliantine. Lime Cream.

RAYMET & CO., LTD.

507-509 HARROW ROAD, LONDON, W. 10.

ROBARTES, LTD., EXHIBIT. BRITISH INDUSTRIES FAIR.

Write for Illustrated Catalogue, containing particulars of our latest and original lines, most successfully introduced at this Exhibition

"DIADEM" PARFUM SEC.
"DIADEM" BATH SALT CONCENTRATES.
"DIADEM" LILY-MILK SOAP.
"DIADEM" TROPICAL HAIR LOTION, Etc.

ROBARTES, LTD., DYER'S BUILDINGS, HOLBORN, LONDON, E.C.1

JOHN ELLIS & CO., Ltd.

Manufacturing Chemists

LEEDS

have pleasure in announcing that they have been appointed by the Pompeian Manufacturing Co., Cleveland, O., U.S.A.,

SOLE UNITED KINGDOM DISTRIBUTING AGENTS

FOR THE

Pompeian

Toilet Specialities

POMPEIAN Massage Cream
POMPEIAN Day Cream
POMPEIAN Night Cream
POMPEIAN Beauty Powder
POMPEIAN Fragrance (Talc)
POMPEIAN Bloom

In America—a country of high-class and expensive toilet productions—the POMPEIAN series enjoy a tremendous sale. Every pharmacist from New York to San Francisco gives his best display space to POMPEIAN. It *pays* him.

Supplies are on their way to England now. If you do a high-class trade we shall be happy to send you Price List and Terms.

JOHN ELLIS & CO., Ltd.

POMPEIAN Distributing Agents

50 Wellington Street, LEEDS.

Telegrams: "CHEMEX LEEDS." Telephone: 22042.

TETLOW'S

"SWANDOWN"

FACE POWDER

OWING to the continued advance in the cost of all raw materials in America, the proprietors have been compelled to further advance the price. It is now **10/-** per doz., minimum retail price **1/3** per box, the profit to the Trade being exactly as before.

HENRY C. QUELCH & CO.

4 & 5 Ludgate Square, London, E.C.4

The Perfect Paste with the Pleasant Flavour.

Anglodol

Dental Paste

A Perfect Dentifrice.
Pleasant to the taste.
Profitable to the Retailer.

Retail Price, 7½d. and 1/3.

Window display terms on application.

ANGLODOL, LTD., BERKHAMSTED.

Telephone: Berkhamsted 138. *Cables and Telegrams:* "Anglodol Berkhamsted."

Profit by the Growing Demand *for* Snowfire.

Large numbers of women doing outdoor or indoor work are buying Snowfire regularly. They have discovered its cleansing, softening and beautifying influence upon the skin—how it keeps the hands white and dainty.

Snowfire

TABLETS

Sell freely all the year round. Specially valuable in Winter for Chapped Hands, Cracked Lips, or Roughened and Irritated Skin.

Well advertised. Shows good profits. Attractive publicity matter free. Goods carriage paid to your door. For Price List write

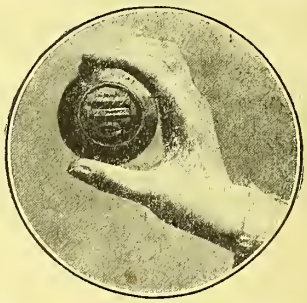
F. W. Hampshire & Co. Ltd.
RIVERSIDE WORKS, DERBY

MOUSLEY'S "BEAVERPUF"

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality Brown Fur, 3/11 each, Retail.



G. quality Grey Fur, 4/6 each, Retail.

Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.
Thousands already sold.
Now stocked by leading Wholesale Houses.
Usual Trade Discounts.

Patentee and Sole Manufacturer:

F. A. MOUSLEY,
Priest Bridge, Mortlake, London, S.W.14.

THE ONLY POPULAR SHILLING FACE CREAM ON THE MARKET

Ven-Yusa Cream

IS STILL ONE SHILLING.
GIVES YOU 33⅓% PROFIT ON SALE
BEST TERMS FOR **50/-** PARCEL

DAINTY AND ATTRACTIVE FOR THE COUNTER.

BEAUTIFUL SHOWCARDS SUPPLIED.

Any War Packages (Plain Corks) exchanged Free of Cost.

Write for Window-Show Terms to

C. E. FULFORD, Ltd.

CARLTON HILL, LEEDS.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

THE SUPER PASTE

"ENOLIN" IS ALSO SUPPLIED IN POWDER FORM, 6d. and 1s. TINS.

SOLE MANUFACTURERS & PROPRIETORS:
A. & E. CARRERAS, *Perfumers,*
207 King St., Hammersmith, London, W.6.

Selling Agents for
Provinces, Ireland and Export:
Messrs. Pattinson & Mackie, Ltd.
Albion House, 59 New Oxford Street,
London, W.C.1.

"Newberys"
FRANCIS NEWBERY & SONS LTD

Dental Cream *of* Distinction

IN THE FOLLOWING FLAVOURS—

Formalin & Mint *Carbolic*
Oxygen *Smokers'*
Areca *Thymol*
Cherry

A first-class article, attractively packed — which cannot fail to bring repeats.

CHARTERHOUSE SQUARE,
LONDON, E.C. 1

KEENOLIA Hair Cream.

Shows you 50% Profit on Sale.

Our Advertising is attracting New Customers Every Week.

ARE YOU SHARING IN THE PROFITS?

MADE UP IN TWO SIZES:

4 oz.	per doz.	7/6	min. retail	1/3
8 oz.	,, ,,	12/-	,, ,,	2/-

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

ORMSIDE CHEMICAL CO.
LIMITED.
57 POLAND STREET, LONDON, W. 1.

Think it over!

THESE ARE JUST THE LINES YOU WANT.

"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.

"LEONA" DENTAL CREAM
(Mint or Thymol)

Small Size ...	Cost 4/6 per dozen	Sell	@ 7½d.
Large Size ...	„ 8/- „ „	„	@ 1/3

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE
Cost 12/- per dozen Sell @ 1/6

A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)
Cost 8/6 per dozen Sell @ 1/-

Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"
Cost 8/- per dozen Sell @ 1/-

Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—
THE JACKSON CO., 172 St. JOHN STREET, LONDON. E.C. 1.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY - For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads.	36/-	4/-
BARSYDE - - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay).
R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta).
JAMNADAS BROS. (Bombay).

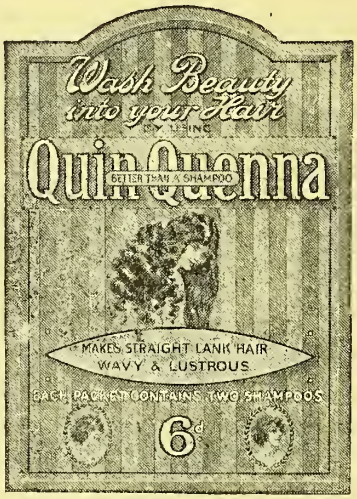
NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

QUINOLOX

The Real Hair Grower. The new prices are as below. It is still a feature of Public Press, *and one only is the bonus on dozen lots*, with a lovely multi-coloured Showcard.

Small, 23/- per doz.; 2/6 each to Public
Large, 36/8 „ „ 3/9 „ „ „



100'S OF CHEMISTS KNOW QUITE WELL

that if they buy and display Quin-Quenna, sales are as certain as "night follows day." Hence the huge quantity that is sold and the confidence in the line. It is pleasing to announce a further increase in the Press advertising appropriation, so be prepared for a bigger demand than ever.

P.A.T.A.
4/- DOZ. **43%** PROFIT **6d.** PKT.

Quin-Quenna

BETTER THAN A SHAMPOO

WILL YOU LET THE POSTMAN BRING YOU

one 6 dozen carton along with coloured showcard as above, leaflets, wrappers, &c., **and one dozen bonus**, carriage paid to destination?

IF SO JUST WRITE A POSTCARD TO

THOS. CHRISTY & CO.
4-12 Old Swan Lane, London, E.C.4.

COMBS

Combs are always in demand and the Chemist who displays them gets the Business. Below is a selection of good selling lines—try a few of them.

Ladies' Dressing Combs

No.		Size	Per Doz.
171	White celluloid... ...	7 × 1½ in.	6/6
103	Black ,, ...	7 × 1½ in.	6/6
102	,, ,, ...	8 × 1¾ in.	7/6
112	Dove colour, non-inflammable	8 × 1½ in.	9/-
123	Assorted ,, ,,	7 × 1¼ in.	9/-
121	Black celluloid burr grailled ...	7½ × 1¼ in.	13/6
116	Shell ,, ,, ...	7½ × 1¼ in.	13/6
173	Black ,, ,, ...	8 × 1½ in.	14/6
168	White ,, ,, ...	7½ × 1¼ in.	18/-
150	,, ,, ,, ...	8 × 1½ in.	24/-
106	,, ,, ,, ...	8 × 1¾ in.	27/-

Ladies' Rake Combs

No.		Size	Per Doz.
167	White celluloid burr grailled ...	6½ × 1¼ in.	12/6
117	,, ,, ,, ...	7½ × 1½ in.	21/-
115	,, ,, ,, ...	7½ × 1¾ in.	22/-
174	,, ,, ,, ...	8 × 1¾ in.	27/-

Gents' Dressing Combs

148	Mottled colour, non-inflammable	5½ × 1 in.	8/-
140	White celluloid... ...	7 × 1 in.	9/-
143	Black vulcanite ...	7 × 1 in.	10/6

Gents' Pocket Combs

163	Special line, assorted, in cases ...		4/6
175	Shell celluloid, in cases	4½ × ⅞ in.	7/6
160	Black, non-inflammable	5¼ × ¾ in.	12/-

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, Ltd.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

ASK TO SEE OUR

New Ranges of London Made

DRESSING COMBS

MANICURE SETS

BRUSH BACKS

Hair Ornaments, Etc.

MYERS, LUMOS & CO.

MANUFACTURERS.

FACTORIES: ISLINGTON and FINSBURY PARK

SALES OFFICES: 35/36 Aldermanbury LONDON, E.C. 2.

Phone: 3526 City (3 lines).

Every Chemist in every town CAN sell "OKOS"—easily

PROOF ¶ A Lady in Walthamstow recently tried to buy a tin of "OKOS" at five local chemists—and failed. She was eventually supplied by our Mail Order Dept. and writes again in eulogy of its qualities.

Are YOU ignoring YOUR local demand?

DURING MARCH ONLY
we are offering
3 dozen tins of "OKOS" retailing at 7½d. per tin for 12/-

packed free and carriage paid, with showcard, for cash with order.

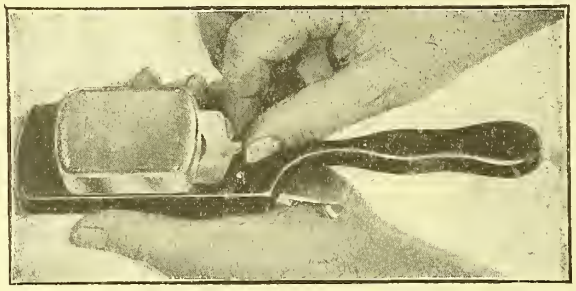
The Midland Wholesale,
2 Regent Place, Leamington Spa.

H.P.

The "REX" Self-Generating Electric Brush

(THE ONLY BRUSH OF ITS KIND IN THE WORLD.)

For the Hair, Headache, Nerve Trouble, Rheumatism. Direct Electricity for *immediate relief* for all pains and aches.



Since we first put this unique Brush before the public, some four years ago, the demand has been greater than the supplies, particularly so during the last two years. We beg now to intimate that we have trebled the production, and hope to be in a position from now on to execute orders without undue delay. The "Rex" Electric Brush is greatly improved, stronger and better finished.

SOLD BY ALL FIRST-CLASS CHEMISTS AND PERFUMERS.

RETAIL PRICE, £2 : 2 : 0 complete with attachments.

REX IMPORT CO., LTD.,

Head Offices - - - - - "Rex" House, 202 Bath Street, GLASGOW.

Phone: DOUGLAS 471, 472. Grams: "GARSCADI EN GLASGOW."

London Office: 359 CITY ROAD, E.C. 1. Works: OSWALD STREET, GLASGOW.

Guaranteed free of Anthrax

SHAVING BRUSHES

French made—Delivery from London Stock.

Camel Hair Brushes, Combs, Hypodermic Syringes (French).

Wholesale and Export only supplied.

A. E. DEPRETER, 24 Holborn, London, E.C.1.

Telephone: Holborn 3182. Telegrams: "Aedeprelon, Smith, London."

G. B. KENT & SONS, LTD.

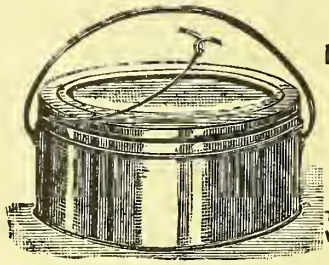
Are known the World over as the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C. 1.

The Northern Tin Canister Works,



6 Mersey Street, **LIVERPOOL.**

Manufacturers for the Chemical Trade.

TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

Patent Air Tight Slip-lid Tin for Export.

Prompt Deliveries Assured.

TOOTH, NAIL, SHAVING AND BATH BRUSHES.

Makers of the "Athenæum" Tooth and Nail Brushes.

TITTERTON & HOWARD, BRUSH MANUFACTURERS: 8 & 10 GT. TITCHFIELD ST., LONDON, W.1

BIDWELLS LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn (Assorted Patterns.)	20/-	doz.
ditto Hard, White or Yellow	22/-	,,
ditto Ex. hard ,, ,,	24/-	,,
Mitre - - -	16/-	,,
Elephant - - -	14/-	,,
Anchor - - -	12/-	,,

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes, but our own make only.

A selected £12 parcel of Hair Brushes from 50/- to 150/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

CORRUGATED PAPER

ROLLS, SHEETS, BOXES (collapsible)

Cartons, "Cut Pieces," Strong Outers, for every description of Packing.

Keenest Prices. Quick Delivery.

Inquiries Welcomed.

The Guildhall Corrugated Paper Co.
Guildhall Buildings, Navigation Street,
BIRMINGHAM.

Telegraphic Address: "Corrucarb," Birmingham. *Telephone:* Midland 2058.

PROPRIETOR — A.H.GLOVER.

Best **Delphinus** MFG.CO. British

TRADE MARK.

SPECIALTIES

Nail Polish, Antiseptic
Cloth Cleaner, Styptic Pencils &
Solidified Brilliantine, Shaving Blocks,
Dental Cream, Pomade Hongroise,
Bay Rum, Dry Shampoo,
Etc.

Maximum Quality! *Minimum Cost!*

Exports to all parts. CABLEGRAMS HONGROISE BRIGHTON. *Enquiries invited.*

COPYRIGHT.

45 Edward St., TELEGRAMS *Brighton.*

It is important to note that each Bottle is guaranteed airtight under all climatic conditions.

"KRASKA"

USED BY ROYALTY.

The only Perfect Liquid Nail Polish.

MADE IN TWO COLOURS,
ROSE AND NATURELLE.

Kraska Nail Polish ...	small	9/6 per doz.	Retail	1/2 each.
,, ,, ,, ...	medium	12/6		1/8 ,,
,, ,, ,, ...	large	19/-		2/9 ,,
,, Hand Balm ...		10/-		1/2 ,,
,, Bleaching Fluid		10/-		1/2 ,,
,, Cuticle Cream		10/-		1/2 ,,

Obtainable at All Wholesale Houses.

SOLE AGENTS:

FRANCISCO MAYER, Casilla 2869, Santiago, Chili.
C. E. COLLINGE & CO., 143 Cannon Street, London, E.C.4 *China & Straits Settlements.*
Mr. J. WINKEL, 21 Bierkade, The Hague, Holland.
A. E. & F. TOLLEY, Ltd., 26 King Street, Sydney, N.S.W. *Australia, New Zealand, India.*

Other Agen's Entertained.

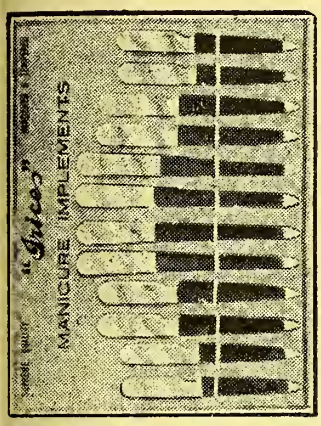
THE KRASKA CO. LTD.

7 BLENHEIM STREET, NEW BOND STREET, LONDON, W.1.

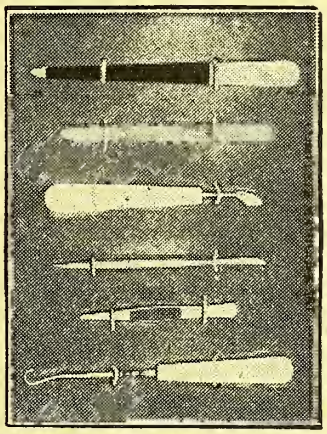
BEAZ (Blackpool) LIMITED.

SPECIAL OFFER IN

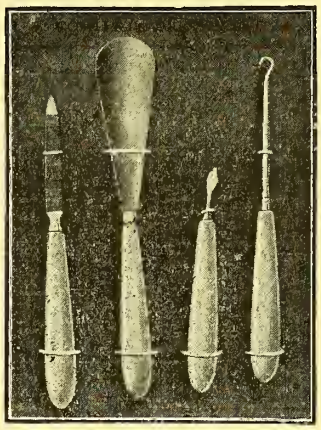
Carded Manicure Sets, Nail Clips, Flexible Files, etc.



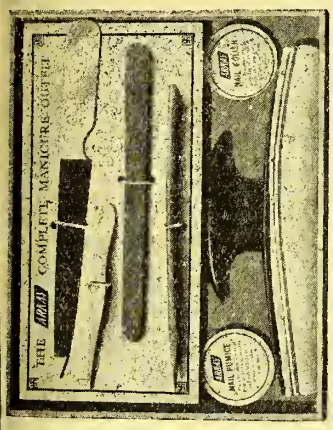
Nickel Plated Flexible Nail Files, 6/6 per dozen. Platinum Finish and superior quality, **10/6.**



Manicure Set, No. 111. Containing Buttonhook, Tweezers, Cuticle Pusher, Trimmer and Emery Boards, Flex. File. Ivorina Handles. **32/6** dozen.

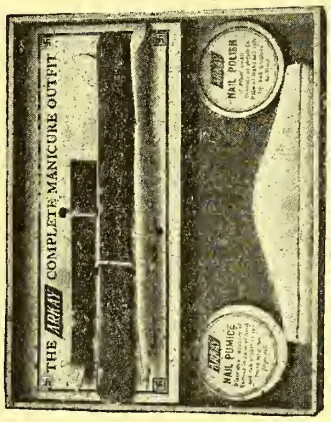


Dresser Set, No 107. Containing Shoehorn, Buttonhook, Nail File and Tweezers, Xylonite Handles, **60/-** dozen.



Box Manicure Set, No. 101. Containing Flex. File, Tweezers, Emery Boards, Cuticle Pusher, Polisher, Boxes of Nail Powder & Powdered Pumice. **30/-** per dozen.

Arkay Nail Clips.
9/- dozen. **8/6** gross Lots.
1 dozen on a Card.



Beginner's Manicure Box Set. No. 100. Containing Flex. File, Cuticle Pusher, Buffer with Celluloid back, 2 Emery Boards, Boxes of Polish & Powdered Pumice. **14/-** per doz.

ALSO FINE RANGE OF POLISHER BUFFERS IN EBONY, SATINWOOD AND IVORY, CUTICLE AND SURGICAL SCISSORS.

The items here displayed are only a few of the host of bargains we have to offer, and if you are a keen business man you will send a postcard to-day for *SAMPLES AND PRICE LIST.*

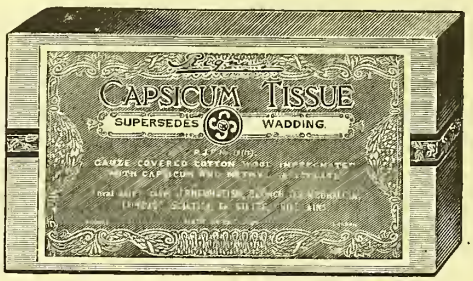
BEAZ (Blackpool) LIMITED,

Telegrams: "Manicure, Blackpool." **BEES BUILDINGS, BLACKPOOL.** Telephone: No. 923.

A LIVE FIRM FOR LIVE CHEMISTS.

angers

Telephones for Orders:- MUSEUM 700 to 706
Telegrams:- "PHARSALIA, EUSROAD" LONDON.



JUST two good lines for which there will still be many weeks of profitable sales. Both bear the well-known Regnas Brand mark, a guarantee of sterling quality and right prices. Regnas Capsicum Tissue has taken on with the public, and the special bonus terms we are giving make it impossible to find a more profitable medicinal wool. Regnas Formalin tablets, mint flavour, have always had large sales. In screw-cap bottles of 50 tablets with special prices for 1 and 2 gross lots, we know you cannot beat our prices. May we tell you them in confidence?

258, Euston Road,
LONDON, N.W.

NOW is the time to display SULPHUR TABLETS

MOORLAND BRAND
TRADE MARK

THERE is a big demand for Sulphur Tablets this year and we advise you to order now and make a good show in your next window. Don't display lines that are not in demand, follow the weather conditions.

With every order for 28 lbs. of Sulphur Tablets we include 100 × 2 oz. cartons printed in 3 colours and attractive window display material consisting of a poster and showcards. With 1 cwt. of Tablets we send 400 cartons free. Tablets are round, orange flavoured.

28 lbs. 2/4 lb.; 1 cwt. 2/2 lb.

STRAW HAT CLEANER

This is sure to have a big sale this year. Straw hats will be very dear and probably in short supply, but in any case the cheapest according to the papers are to cost 10/6!

Our Straw Hat Cleaner really cleans the hat and does not turn it that yellow colour. Attractive envelopes and good showcards.

Retail 2d.; 14/- per gross.

SACCHARINE TABLETS

In enormous demand which is sure to continue. Our tablets are guaranteed full strength and dissolve at once. Attractively packed in envelopes or tins.

100's Envelopes, 9/- doz.; Tins, 10/- doz.

W. B. Cartwright, Ltd
RAWDON near LEEDS

Australia—
297-299 Castlereagh Street, SYDNEY.
326 Flinders' Lane, MELBOURNE.

New Zealand—
161 Hereford Street, CHRISTCHURCH.
Wright's Buildings, Port St., AUCKLAND.

ALL REACTIONS of the Body Fluids and Tissues are COLLOIDAL.

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.

CROOKES'
COLLOSOLS

"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

COLLOSOL SULPHUR

Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spa treatment, practitioners will find Collosol Sulphur invaluable.

It is prepared in five different forms—for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:—

ARGENTUM, ARSENICUM, CUPRUM, FERRUM, HYDRARGYRUM, IODINE, MANGANESIUM, PALLADIUM.

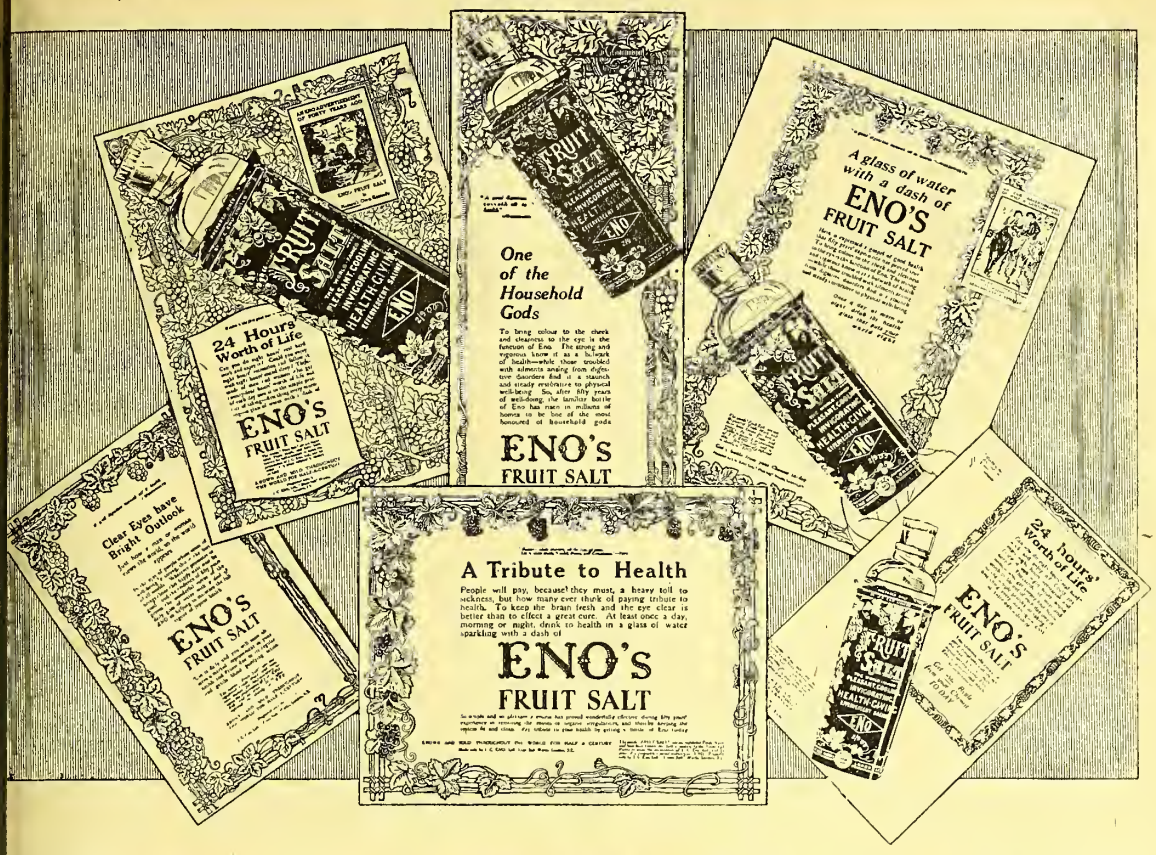
Kindly Note Change of Address

Particulars, Literature, and Reports from

The CROOKES' LABORATORIES

22 CHENIES STREET, TOTTENHAM COURT ROAD, W.C. 1.

Telephone: MUSEUM 3663.



Some of our advertisements appearing in the leading London and Provincial papers.

No article that a first-class Chemist carries has behind it more comprehensive or more progressive advertising than

ENO'S FRUIT SALT

It has been advertised for fifty years and our announcements have ever maintained such a high tone of expression and convincing argument that the demand for ENO has grown steadily and consistently through all these years. Its reputation stands to-day second to none.

The words "Fruit Salt" are our registered Trade Mark, and have been known for half a century to mean the preparation of J. C. ENO, Ltd., and no other.

Write for pamphlet giving Trade Terms, and illustrating our latest showcards and cut-outs for counter and window display. Sales Manager, J. C. ENO, Ltd., "Fruit Salt" Works, London, S.E.14.

VITMAR

THE NEW FOOD FOR GROWING CHILDREN

is now in great demand

Chemists can obtain it from their Wholesalers

RETAIL PRICE		WHOLESALE PRICE
2/3 per jar	... ...	21/7 per doz.
4/3 „ „	... ...	40/9 „ „
8/- „ „	... ...	76/10 „ „

MANUFACTURED BY

CALLARD & CO.

CALLARD, STEWART & WATT, LIMITED,

Food Specialists,

74 REGENT STREET, LONDON, W. 1.

REVISED PRICES of

GEORGE KING & COMPANY'S PREPARATIONS

IN FORCE AS FROM MARCH 1st, 1920

(as per lists circulated)

KING'S WHEATEN FOOD (Malted)

Small Tin, 6 doz. in case	...	11/-	per doz.	Retail at 1/3
Medium „ 3 „ „	...	20/-	„	„ 2/3
Large „ 1 „ „	....	56/-	„	„ 6/3

KING'S PREPARED PATENT COOKED SCOTCH OATMEAL (Fine & Medium)

1-lb. Tin, 6 doz. in case	....	14/6	per doz.	Retail at 1/6
2-lb.—„ 3 „ „	....	27/-	„	„ 2/10
7-lb. „ ½ „ „	....	86/6	„	„ 9/-

ABOVE QUANTITIES RAILED IN FREE CASES.

A large and ever-increasing branch of our business is the manufacture of

MALTED COOKED FOOD.

Originally produced to meet the demand for a High Grade Food for sale as

CHEMISTS' OWN PROPRIETARY,

it has for many years been adopted by the leading Manufacturing, Wholesale and Export Houses.

Quotations upon application.

GEORGE KING & COMPANY,
ALBION FOOD MILLS,
1 and 2 SYCAMORE ST., LONDON, E.C.1.

SPECIAL OFFER.

CLINICAL THERMOMETERS

(All Government Certified.)

½-Min. Lens Front, @ 36/- per doz.	½-Min. Round Front @ 32/- per doz.
1 do. do. do. @ 33/- ,,	1 do. do. do. @ 30/- ,,
2 do. do. do. @ 31/6 ,,	2 do. do. do. @ 28/6 ,,

Each in Metal Case.

W. EDWARDS & SONS,

157 Queen Victoria Street, 239 & 240 Upper Thames Street,

LONDON, E.C.

PRICE LISTS SENT ON APPLICATION

ORDERS CAREFULLY & PROMPTLY EXECUTED

WHOLESALE AND EXPORT DEALERS IN

Druggists' Sundries

AND

Proprietary Articles

ENGLISH, AMERICAN, FRENCH, &c.

AGENCIES UNDERTAKEN ON ADVANTAGEOUS TERMS FOR PROPRIETARY ARTICLES & OTHER GOODS

Telegraphic Address: "MEDICINES, CENT, LONDON." Telephones: CENTRAL 1400 & 140L

PURE ORANGE WINE

A. MILLAR & CO., Ltd., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the United Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St, Liverpool.

PROFIT in GREENWICH Household Dyes for You.

—40% *on Turnover* is the Profit you make on this quick-selling line. There is positively no dead stock. Directly your customers see them on your counter or in your windows they will say—"*Ah! that's what I want.*" Terms—Wholesale, 2/- and 4/- per doz. With a 10/- parcel, comprising 3 dozen 3d. and 1 dozen 6d. packets, we give 2 extra 6d. packets free as payment for display. With a 20/- parcel comprising 6 dozen 3d. and 2 dozen 6d. packets, we give five 6d. packets free in payment for display. Attractive Showcards and Window Bills supplied.

MADE IN 12 COLOURS

THE GREENWICH LEMONADE CO., 11 John Penn St., Greenwich, S.E. 13.

Telegrams: "Cortlimon, Dept. London." (J. MILNER, M.P.S., Proprietor.) Phone: Greenwich 947.

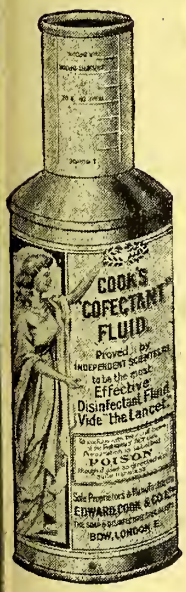
EDWARD COOK & CO.

beg to inform the Trade that they have just issued their Revised Price List of **DISINFECTANTS** and Allied Specialties, which has been considerably enlarged.

YOUR request by P.C. will secure a complete list and full particulars by return of post.

For all Bacterial Affections of the Respiratory Tract. Invaluable to Speakers and Singers. 10/- per doz. boxes. Retail Price, 1/3 per box. Also in form of PASTILLES.

"DECITAS" Fluid. A Good Household General Disinfectant Fluid. In 4-oz. bottles at 6/- doz. Retail Price, 9d. per bottle.



"Cofectant" Fluid, in 8-oz. tins, at 10/- doz. Retail Price, 1/3 per tin.

A Pure Triple-Milled Soap, containing a suitable percentage of Cofec ant, Invaluable for preserving a Clear Skin from Blemishes, etc. 15/- per doz. 3-tab. boxes. Retail Price, 8d. per tablet.

A Fragrant Fluid for all Spraying Purposes. 8/- doz. tins. Retail Price, 1/-

Cook's Pure British **LYSOL**. At 14/- per doz. bottles. Retail Price, 1/9 per bott.

ALL SUBJECT TO USUAL TERMS.

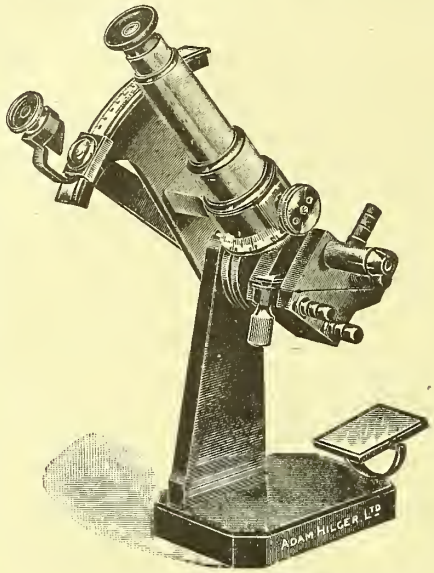
BAN-FLU.

Wholesale price, 14/- doz. Retail, 1/9 per bott.

A new Germicidal bouquet of unequalled value in destroying the germs of Influenza, Scarlet Fever, Diphtheria, etc. etc. Sprinkle on handkerchiefs and clothes.

EDWARD COOK & CO., Ltd. (DISINFECTANT DEPT.), LONDON, E. 3.

THE ABBE REFRACTOMETER



is a valuable aid towards maintaining uniform strength in pharmaceutical products (solutions, syrups, etc.), and much quicker than taking the dried weights or specific gravities.

DELIVERY FROM STOCK.

Descriptive Booklet post free on application to the Makers:

ADAM HILGER, LTD.

(Department H)

75a CAMDEN ROAD, LONDON, N.W. 1.

Telephone: NORTH 1677—8. Telegrams: "SPHERICITY, PHONE, LONDON."

CLAIM
YOUR
SPIRIT REBATE.

Keep a record of receipt and use as required in the Order, and obtain the repayment.

OUR RECORD BOOK IS

3/-

Post Free.

(See *C. & D.*, Jan. 3rd, page 76.)

JAMES TOWNSEND & SONS,

EXETER and LONDON.

ELLIOTT OPTICAL COMPANY

FOR ALL DESCRIPTIONS

OF OPTICAL GOODS AND AN EXCELLENT PRESCRIPTION SERVICE.

104/105 GT. SAFFRON HILL, LONDON, E.C. 1.

LAMP-BLOWN ARTICLES

SUCH AS

Test Tubes, Ampoules and Vials.

We have the greatest pleasure in intimating that not only are we making the above articles, but have every facility for reasonably quick delivery.

We also feel a pardonable pride in being able to train wounded soldiers for some of this work, and who are imbued with the ideas and high standard these productions demand.

We also have large stocks of Medicals, Kalis, Limes, Vials and Perfumery Bottles. We can always fix you up with something from stock.

JULES LANG & SON, Charlton Works, Charlton Place, ISLINGTON, LONDON, N.1.

Telegraphic Address: "Assorted, Phone, London." Telephone: North 2770 (3 lines).

E. YOULDON, LTD.

MANUFACTURERS OF

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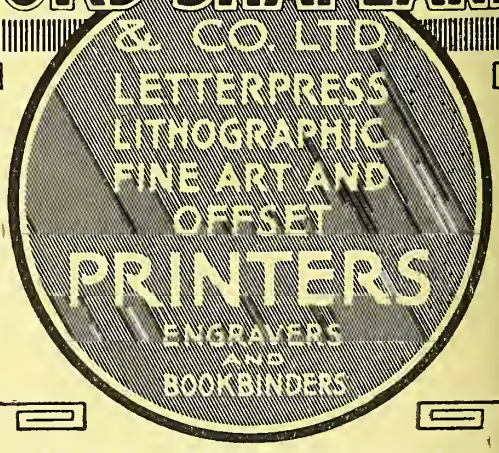

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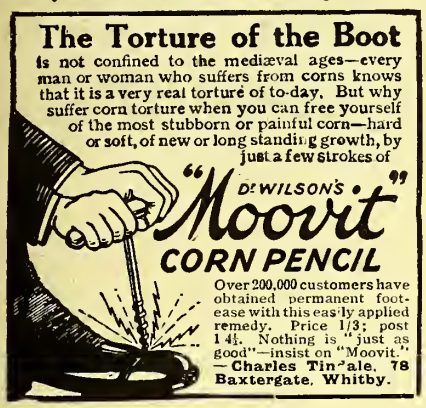

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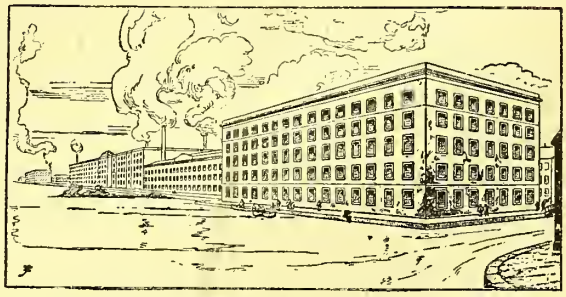

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Proof Spirit Conversion Tables.

A REPRINT of the Proof Spirit Conversion Tables published in THE CHEMIST AND DRUGGIST, December 27, 1919, is now ready. It is in the form of a four-page pamphlet of the size of this page. A charge of 4*d*. a copy (post free) is made for the reprint.

Wills.

MR. JOHN CARMAN, J.P., chemist and druggist, Gerddi, Benno, Holywell, who died on January 15, aged seventy-one years, left estate valued at 4,970*l*. 2*s*. gross, with net personalty 2,249*l*. 13*s*. 1*d*.

MR. NATHAN BERRY, retired chemist and druggist, 13 Walkden Road, Walkden, near Manchester, who died on December 28, left estate valued at 2,138*l*. 1*s*. 7*d*. gross, with net personalty 2,080*l*. 11*s*. 7*d*.

LIEUT.-COLONEL GREGORY MARCAR GREGORY, 36 Gunterstone Road, West Kensington, formerly superintendent of the opium factory at Ghazipur, who died on January 28, left estate valued at 648*l*. 6*s*. 5*d*. gross, with net personalty 625*l*. 9*s*. 11*d*.

Experiences of the Great War.

XXX—The Golden Temple at Amritzar.

THE train landed us in Amritzar at 10.30 A.M., and we walked straightway to the Golden Temple, the main object of our visit. Here at the entrance Sikh police took us to a room where our boots were removed and all the tobacco in our possession left behind. No one is allowed to approach the precincts of this great place with either boots or gaiters on. We were given some huge, ill-fitting canvas shoes and a guide commenced to take us round. We first arrived at the outer gate, which led to the marble bridge out to the temple. This gate is of beautifully carved ivory, the dome of gilded copper, and the whole decorated with highly coloured flowers. Across this gateway we came to the white marble bridge along which one goes to reach the temple, situated in the midst of the "Lake of Immortality." The word Amritzar is derived from Sanscrit, *Amrit* meaning immortal, *Sar* meaning water. This sacred tank of water is really a big-sized lake cut out of the ground. The Golden Temple is built in the centre and the bridge leads out to it. On each side of the bridge are lamp-pillars with gilded tops. The temple is not so big as one would think, being quite an ordinary-sized place. We were first taken round the minarets and outworks. These are all beautifully gilded, and in the sun look really fine. All the walls are minutely carved and painted with highly coloured Eastern style of art. Then we were taken to the chief feature of it all. On the bottom floor, under a red canopy, around which flew pigeons and doves, was the Holy Book or Bible of the Sikhs. This book is never seen, and is covered with many elaborately worked cloths. Behind it are seated three priests, who continually look after this book and the offerings which are thrown into three pots in front of them. By their side are three musicians. The first plays on drums, and his art consists of spasmodic bangs with the thumbs and palms, making a fine noise. The second fingers the sacred hymns on a small wind-organ, one hand keeping the bellows at work. The third plays on an instrument resembling a squat violin. There is no time, harmony, or music in this affair. It is one mass of discordant chants and weird singing. By relays of priests and singers this goes on day and night, year in and year out. The precious book is never left alone. The temple constitutes the great pilgrimage of the Sikh religion. Devotees buy sacred flowers sold outside the temple, and after much bowing and salaaming either throw them on the Bible or in the Waters of Immortality. I was fortunate enough to get one of the necklaces made from these flowers which I got from the guide. They represent a rosary, and each flower is a prayer. After this we walked all round the tank and saw the worshippers bathing, then back for our boots, and out, as no one is allowed to stay there long. G. A. T. (54/39.)

THE Senate of the University of London has instituted a chair of radiology at Middlesex Hospital.

LECTURING before the Royal Geographical Society on March 1, Lieutenant E. W. P. Chinnery remarked that New Guinea is a land of commercial possibilities which, up to the present, have scarcely been investigated. Gold, osmium, and valuable oils have been discovered; there are forests of pine; the rubber plant is widely distributed; and it is believed that other raw materials are awaiting exploitation.

NUX VOMICA.—The exports from India during 1918-19 amounted to 62,518 cwt., valued at 57,606*l*., against 33,161 cwt., valued at 14,556*l*., in 1914-15. The fruits are collected between November and January, and the seed removed and dried in the sun. The busy season for export on the West Coast runs from February to the middle of May. Shipments are chiefly from Cochin, Madras, Coconada, Bombay, and Calcutta. The chief importers are the United Kingdom and the United States. Practically all the Coconada output went to New York last year.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham.

Birmingham gas is to be raised in price to 4*s.* per 1,000 cubic feet—the statutory limit.

The industrial exhibitions held annually, before the war, at Bingley Hall are to be resumed this year.

Cadbury Bros., Ltd., have doubled their original contribution towards the cost of building a continuation school at Bournville.

Speaking at a meeting of the city council on March 2, the chairman of the finance committee said that there is no hope of a reduction in Birmingham rates for some years.

Alderman F. C. Clayton, Ph.C., has become, by the death of the late Alderman Edwards, the oldest member of the city council. Mr. Clayton retired from business many years ago.

The reference in last week's *C. & D.* (p. 91) to the pronunciation of "potash" interests dwellers in Birmingham by reason of the fact that potassium is always called "pertassium" locally.

Major Hall Edwards, lecturing here on March 2, stated that the advance made in the detection of flaws in metal by *x*-rays had been extended to steel and iron six inches thick, and it was hoped to penetrate further before long.

Liverpool.

Civilian patients are again being received at the Hahnemann Homœopathic Hospital.

A ladies' dance, arranged by the staff of R. Sumner & Co., Ltd., Hanover Street, was held at Acacia House, Everton, on February 27. Nearly 180 were present, and all enjoyed the capital programme.

At Liverpool Police Court on March 1, four Chinese sailors were fined 10*l.* each, and a share of the interpreter's fee, for being in unlawful possession of opium on board a British ship in the docks.

Pharmacists are preparing for Easter. Displays of photographic materials are on the increase. Here and there retailers complain of a decline of business; but the volume of trade in the wholesale shows no lessening.

A motor-van belonging to Ayrton, Saunders & Co., Ltd., caught fire recently between Eversley and Kendal. Most of the goods had been delivered, and those which remained were salvaged when the flames broke out. The van was badly damaged.

The five Labour members of the Liverpool Profiteering Committee resigned their positions on March 3, and in a letter to the town clerk strongly criticised the Profiteering Act. They say they have been much impressed by the revelations of profiteering in the woollen and other industries, and by the inaction of the Government, "an inaction amounting to a support of acts disclosed in the revelations mentioned." They say the Profiteering Act is so phrased and drafted as to make any useful action impossible, as the Act penalises small shopkeepers and allows the wholesaler and manufacturer to go scot free.

Manchester.

The inaugural dinner of the Manchester and District Pharmacists' Masonic Association will be held at the Victoria Hotel on March 31. Trade subjects, the letter of invitation states, will not be discussed. Evening dress is optional. Tickets, 10*s.* 6*d.* each, may be obtained from the secretary, Bro. A. Newton, 20 Salisbury Drive, Prestwich.

By the death of Mr. Hermann Woolley, Ph.C. (recorded on p. 81), an outstanding figure in the drug-trade of Manchester and the district disappears amid general sorrow. Mr. Woolley had a large circle of friends, especially in connection with Manchester University, in which he took a keen interest. The flag of the University was flown at half-mast from February 27 to March 2.

Sheffield.

There seems to be but little prospect of the formation of pharmacy classes at Sheffield University, a recent attempt in this direction having been unsuccessful.

After several conferences, local hours for Insurance dispensing have been arranged. They are to be the ordinary business hours, with a slight addition, and the rota will not be resorted to.

The members of the Sheffield Pharmaceutical Students' Association have adopted a rather novel means of "raising the wind" for their proposed magazine. At the last meeting they had a magazine "draw," four money prizes being offered. Major Peck made the draw.

At the recent official inquiry concerning the extension of the city boundaries, evidence was given in support of the dispensing of Poor-Law medicines by qualified men. The system by which medical men dispense their own medicines should, it was urged, be done away with.

Miscellaneous.

Fire.—On March 2 an outbreak of fire was caused by a bottle of ether bursting in the premises of A. W. Penrose & Co., Ltd., Little Saffron Hill, London, E.C. 1. A district call was given, and twenty-one motor fire-appliances were engaged. Four firemen were injured. The damage is considerable. (See also p. 71.)

An Analyst's Salary.—The St. Pancras (London) borough council, at its meeting on March 3, declined to accede to the application of Mr. J. K. Colwell, F.I.C., the borough analyst, for an increase in salary. Mr. Colwell stated that he was appointed in 1909 at a salary of 300*l.* per annum, and that his war bonus of 20 per cent. did not cover the increase in his working expenses.

Anthrax in Shaving-brushes.—Referring, on March 3, to the appropriation of shaving-brushes which were supposed to be infected by anthrax, the chairman of the Lancaster health committee stated that the impression had got abroad that the brushes had been seized, whereas they had been voluntarily surrendered when asked for by the medical officer. Chemists concerned felt aggrieved.

Chemical Society.—The balloting list for the election of officers has been issued. Changes are proposed in the Vice-Presidents, Dr. J. B. Cohen, F.R.S., and Dr. Samuel Smiles being proposed in place of Mr. Arthur Smithells and Dr. Sydney Young. Dr. H. R. Le Sueur is proposed as a secretary in place of Dr. Smiles. Dr. A. J. Allmand, Dr. E. F. Armstrong, Mr. F. H. Carr, and Dr. J. T. Hewitt, F.R.S., are proposed as ordinary members of council in place of Dr. A. Harden, Dr. T. A. Henry, Mr. C. Alexander Hill, and Dr. R. H. Pickard, F.R.S. The annual meeting is to take place on March 25.

Wine-licences Granted.—At Merthyr Tydfil Licensing Sessions, on February 27, Mr. John Roberts, chemist and druggist, High Street, Penydarren, was granted a wine off-licence on the understanding that his sales under the licence would be confined to medicated wines.—At Clacton-on-Sea Licensing Sessions, recently, Mr. J. W. Privett, chemist and druggist, Old Road, was granted a wine off-licence.—At Portsmouth Licensing Sessions, on March 3, wine off-licences were granted to Arnold & Sons, chemists, King's Road, Southsea, and to Mr. Thomas Ernest Greenhalgh, chemist and druggist, New Road East, Copnor.

In the Courts.—At Guildhall Police Court, London, on February 28, George Porter (15), employed by Manners & Hopkinson, wholesale druggists, Southwark Bridge Road, S.E., was charged (in the children's court) with having stolen 2*l.* 10*s.* in Treasury notes from George Hopecraft, Farringdon Street, E.C., described as a soap factor. It appeared that the prosecutor had been in the habit of employing the lad (with a box-cycle belonging to Manners & Hopkinson) in his working hours, paying him small sums. The magistrate observed that the prosecutor had acted very badly, and that the boy had been stealing his masters' time. A remand was ordered.—At Westminster Police Court, on March 1, Mr. William Bennison, chemist, Shawfield Street, S.W. 3, was the defendant in a case of alleged assault at a dinner of the Chelsea Tradesmen's Association. The case was dismissed on payment of 2*l.* costs.

Irish News.

The Pharmaceutical Society of Ireland.

Latest dates for lodging applications for the April examination are as follows: Wednesday, March 17, for the Preliminary examination; Tuesday, March 30, for the Registered Druggist examination; Wednesday, March 31, for the Pharmaceutical Licence examination; Tuesday, April 6, for the Pharmaceutical Assistant examination. Applications should be lodged with the Registrar not later than 11 A.M. on the respective dates. On account of Good Friday falling on April 2, the Preliminary examination will commence on March 31.

Brevities.

At Clones, John Mulligan, an ex-soldier, died from poisoning by strychnine, self-administered.

H. Backhouse & Co., Ltd., have rendered an account to the Dundalk Guardians for 3*l.* 18*s.*, the balance due for medicines supplied to the Union Dispensary in 1919. The clerk said this was in connection with a deduction made on Messrs. Backhouse's account on the suggestion of the Local Government Board, and the company refused to accept payment in full discharge. It was agreed to refer the matter to the L.G.B.

Belfast.

Mr. John Cotter, chemical agent, Gloucester Street, is a candidate for Pottinger Ward at the Belfast Water Board elections on March 9.

The annual meeting of the Belfast Wholesale Merchants' and Manufacturers' Association was held on February 27. Mr. George Wilson (Jordan, Wilson & Alexander, wholesale druggists) was elected a member of the general committee for the ensuing year.

At the opening of a hall for the Comrades of the Great War at Dunmurry, Belfast, on February 28, it was announced that Mr. H. G. Pring, Ph.C. (Grattan & Co., Ltd.), Belfast, had presented the club with a magnificent billiard-table; and that Mrs. Pring had provided a cover for the table.

At Belfast County Court on February 28 David C. Smith, 12 and 14 Goningsby Street, chemical manufacturer, was plaintiff, and Victor C. Taylor & Co., ironfounders, were defendants, in an action claiming 50*l.* loss and damage sustained by plaintiff by reason of defendants having failed to construct an iron boiler in accordance with specifications. The action was dismissed with costs.

Dublin.

Dr. J. C. McWalter has been appointed High Sheriff of Dublin. It will be remembered that the Sinn Fein members, who command a majority in the Dublin Corporation, refused to submit the usual three names to the Lord-Lieutenant for the appointment, with the result as stated.

At the Southern Police Court on March 1 Edward Davis (18) was charged with having, on the night of February 27-28, broken and entered the establishment of Hayes, Conyngham & Robinson, Ltd., 51 Henry Street, in company with two men not yet in custody, and with having stolen watches, soap, and other articles to the value of 181*l.* 7*s.* Prisoner was remanded until March 5.

Meeting of Creditors.

A meeting of the creditors of Mr. Harry Hoskin, Ph.C., The Medical Hall, Clonakilty, was held this week at Cork. The statement of affairs showed liabilities 598*l.*, claims of preferential creditors 68*l.*, and estimated assets, after deducting preferential claims, 205*l.* An offer was made on behalf of the debtor of two shillings in the pound in cash, but the meeting adjourned to enable a new valuation of the stock-in-trade, etc., to be made. Among the creditors are: Cork Chemical & Drug Co., Ltd., Cork, 178*l.* 10*s.*; United Drug Co., Liverpool, 40*l.* 15*s.*; F. Storey, Ltd., Belfast, 36*l.* 10*s.*; Micro Manufacturing Co., Belfast, 31*l.*; Cerebos Co., Ltd., Durham, 27*l.* 5*s.*; Joshua Margerison, Ltd., Preston, 20*l.*; and Pilchers, Ltd., London, 13*l.*

Scottish News.

Brevities.

The West Calder petroleum bore has reached a depth of 3,000 feet.

J. and D. Russell have opened a pharmacy at 13 Carfin Road, Craigneuk.

Mr. J. Plenderleith, chemist and druggist, has been elected Vice-President of the Montrose Merchants' Association.

Paisley doctors have revised their scale of fees. A visit between 9 A.M. and 5 P.M. is to be 3*s.*, between 5 P.M. and 10 P.M., 5*s.*, and between 10 P.M. and 9 A.M., 10*s.*

The coming summer season promises to bring a photographic boom. Recent exhibitions in Glasgow, Edinburgh, and Paisley have greatly stimulated the efforts of amateurs.

The Leith income-tax officials are having a "comb-out," judging by the number of forms being issued. Traders who have been in business from ten to twenty years are getting forms to complete for the first time.

An interesting Franco-Scottish document has just been handed over to Scottish custody. It contains the tradesmen's accounts for the ninth birthday feast given to Mary Queen of Scots. Among other items is a bill from the apothecary.

A recent conversation across the counter of a Scottish pharmacy ran as follows: "Will you kindly send this to me?" "Sorry, I can't. I have no one to send." "Are you never going to have an errand-boy again?" "I don't think so." "All right; I'll call."

Complaints have been current in Aberdeen lately regarding the method of conducting the Qualifying examination of the Pharmaceutical Society. At a recent committee-meeting at Robert Gordon's Technical College the principal submitted correspondence with the resident secretary of the Society in Edinburgh on the subject of the examination, last October, of certain candidates from the College in respect of whose experiences Professor Maitland and Mr. Bryant had expressed themselves as dissatisfied. There was, it was stated, no cause for complaint concerning the January examination, and no further action would be taken in the matter.

Glasgow.

H. C. Edmiston, 466 Victoria Road, was recently fined 5*l.* at the Glasgow Police Court for displaying the title "Dental Practitioner," he not being a registered dentist.

In the Glasgow High Court, recently, James Macfarlane, described as a hairdresser, was sentenced to six months' imprisonment for supplying a girl of nineteen years of age with drugs for an illegal purpose.

An Edinburgh syndicate formed to manufacture food substances from animal blood approached the Glasgow corporation lately regarding the sale of blood at the slaughter-houses. The corporation replied that, as the blood was not their property, they could take no action.

The "Polytechnic" has apparently been "buying up" Army and Navy canteen stores, as they are advertising tooth-brushes, creams, and powder for sale at less than half the usual prices. Some ex-Service men could, no doubt, express themselves very forcibly on such a subject.

A football match between the School of Pharmacy and the Technical College, played on February 28, resulted in a draw, each side scoring three goals. The School of Pharmacy team consisted of Messrs. Docherty, Davie, Dick, Stewart, Burke, Flannigan, Brown, McFarlane, Dollar, Smith, and McMaster.

Professor Francis, Dean of the Faculty of Chemistry in the University of Bristol, speaking at Bristol on March 1, said that the ammonia future of Europe is with Germany, who is in a position to supply essential fertilisers to the whole of Europe. It would take us a generation to compete on even terms with the German chemical industry.

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French News.

(From the "C. & D." Paris Correspondent.)

Wholesale Druggists' Association.—A speaker at a recent meeting remarked that, seeing Syria is definitely within the French sphere of influence, a scientific mission should be sent to study the possibilities of the country from the point of view of drugs and raw material. "France," he said, "had now every chance of obtaining a monopoly in certain drugs, and this fact alone would be sufficient to justify the formation of the association's new *Office des Matières Premières.*

The De-control of Sugar.—Under the sugar-rationing order every French pharmacist was allotted 40 kilos. per month at official current prices. The Minister of Agriculture and Food has just issued a circular to the *préfets*, informing them that, as sugar can be freely imported, he has decided to stop this allowance. Pharmacists will now probably have to purchase supplies at 400 to 500 frs. per 100 kilos. in the open market, instead of obtaining their share at 270 to 290 frs. A Parisian daily asks if such a measure is necessary or opportune, and whether the public will not be charged higher prices for medicaments. His official statement is that he wishes to reserve all sugar available for the general public. But as the total public consumption is 7,000,000 to 7,500,000 quintals per annum, and the total pharmaceutical requirement is only some 50,000 quintals, this argument seems somewhat weak.

An Optimistic Boche.—M. Lucien Chassaigne, a French journalist, has interviewed Herr Bosche, manager of the Badische Fabrik, in connection with the recent development of this "kolossal" affair, the capital of which has now been increased from 90 million to 252 million marks. Replying to the question of finding a market for increased output at a time when France, Italy, Great Britain, and the United States are making bids for the world's chemical trade, Herr Bosche said the future of chemical industry is unlimited. It is not confined simply to dyes. There is Haber's process for the manufacture of fertilisers and manures, and the study of gums, including rubber, in which they had, he thought, now attained their object. Again, albumins may revolutionise the food question. As to raw materials, benzol can be procured from the Ruhe coalfields, and they have pyrites for making sulphuric acid. Nitric acid can be made from the air, and synthetic alcohol will be produced in the near future. "We shall," he added, "use our science and our enthusiasm, sparing no efforts."

Three Gallant Pharmacists.—M. Flamand was a pharmacy student before the war. As a sub-lieutenant, on October 15, 1918, at Chalandry, he led his platoon through barbed wire under artillery and machine-gun fire, cut down two Germans with his own hand, and took three more prisoners, with their machine-gun. When the Huns counter-attacked, he was badly wounded and left behind, but by shamming death he lay undisturbed till the evening, when the French regained their position and carried him off safely. Assistant-Pharmacist Major Belley, of the 107th Infantry, at the front since November 1914, was twice "cited" for aiding the wounded. On the last occasion, "the head surgeon having been killed, he carried on the sanitary service during a fierce fight with perfect devotion to duty and thorough competence." Assistant-Pharmacist Coquelu, under heavy bombardment during the night of October 6, 1918, "went to the rescue of two fallen men. One, severely wounded, owed his life to the rapid first-aid thus provided"

Teutonic Thoroughness.—It may be remembered that last year, on the occasion of the departure from Versailles of the German peace delegates, a German typist of the gentler sex was struck (on a comb worn in her hair) by a stone thrown by some perfervid French patriot. Most people have, in fact, forgotten the incident; but an unofficial report discloses the interesting fact that the German Government seems to have had plenty of time to investigate the far-reaching effects of the casual missile. German scientists have investigated the case with characteristic thoroughness, and have drawn up a report which occupies over forty pages. The entire physiological history of the typist from her birth to the present day is recorded in this report down to the most minute detail. Intimate information is given in regard to the manner in which she has been affected by the various incidents of life that are common to women as a whole, and on this are based conclusions demonstrating how terrible have been the results on her delicate organism of the collision between the pebble and the comb. The elaborate humbug concludes with a demand that the French Government shall endow the typist with a pension.

The "Tiger" on Gums.—M. Perrot, Professor of Materia Medica at the Paris School of Pharmacy, recently left for Africa on a special scientific mission, his object being to study on the spot various vegetable products of the tropical zone, and especially gum acacia. His route is *viâ* Cairo and Khartoum to Darfour. He embarked on the *Lotus*, the steamer on which M. Clemenceau was sailing to Egypt. A third passenger was M. Helsey, of the Paris *Journal*, who, unsuccessful in "drawing" the "Tiger" on political subjects, chatted with him on other matters, including the question of diet. M. Clemenceau eats vermicelli daily. "Yes, it's a treatment," he said. "I have to follow all sorts of treatments, for I have fourteen infirmities. President Wilson has fourteen points. An infirmity for each point. I have met charming people who are off South to seek for gums—eucalyptus gums, I believe. It appears that it is quite amusing. I should much like to go with them. Dr. Vicart, who is with me, will shoot me crocodiles—that will remind me of my political career." He sighed, chatted awhile, and added, "I am going into the desert. There I shall be alone. Come with me and gather gums." M. Helsey, of course, could not go. If the ex-Premier (a doctor by profession) really joins Professor Perrot in his interesting trip he will be unaccompanied by a special correspondent. But as the Professor is in the category of "charming people," and a pharmaceutical journalist as well, history will not necessarily be deprived of its due.

Infringements of Drug Laws during 1919 include the following: Under the new Act restricting the sale of "narcotic drugs" a pharmacist who fortnightly delivered a morphine solution to a customer suffering from an incurable disease was fined 300f. A dentist who assumed the title of doctor, and whose prescriptions for morphine solutions were dispensed by several pharmacists, had to pay 500f. Another, illegally practising medicine and prescribing morphine, was fined 5,000f., and condemned to a year's imprisonment. A *bona-fide* doctor who "obliged" morphinomaniac clients was sentenced to a year's imprisonment, and the pharmacist who dispensed sentenced to six months. A doctor's wife, who forged her husband's name and his note-heading in order to obtain morphine, was fined 1,000f. A female herbalist who illegally practised pharmacy, and two druggists who supplied her, were fined 500f. A doctor who omitted to date prescriptions was prosecuted, but ultimately benefited by the First Offenders Act. A pharmacist who exceeded the quantity of morphine specified on a doctor's prescription had to pay 500f. Another, whose syrup of codeine was not in accordance with the Codex formula, was fined the same amount. Another pharmacist was prosecuted for selling boracic acid without a prescription, but he was acquitted. An unqualified man was fined 3,000f. and sentenced to two months' imprisonment for selling oxcyanide of mercury tablets. Another, who kept open shop under the name of a pharmacist, was convicted, and the "obliging pharmacist" was also punished. Two Belgians were caught smuggling drugs at the Gare du Nord, Paris, with nineteen phials of German cocaine in their possession. They were sent to gaol for a month and fined 3,000f. For introducing into France a serum only authorised in Italy the offender was fined 500f. The pharmacist who stored some of it had to pay 100f. Another pharmacist was acquitted; he had only sold the serum twice, and produced prescriptions authorising the supply.

Colonial and Foreign News

Late-fee for Pharmacists.—A royal decree permits Danish pharmacists henceforth to make an extra charge of 50 ore for every sale during the hours of 8 P.M. and 8 A.M. This extra charge may not be levied on prescriptions written the same night, provided the doctor writes the word "noete" on the prescription.

Tannin in Jugo-Slavia.—Jugo-Slavia has a monthly production of about 300 truckloads of tannin, while the home consumption does not require more than about 50 truckloads a month. In the month of July 1919, about 1,000 truckloads of tannin, with a value of 30 million crowns, had accumulated, waiting for export.

The present Prime Minister of Poland, M. Skulski, is by profession a pharmacist. He was owner of a pharmacy in Lodz, which he sold at the outbreak of the war, and then turned his attention to the manufacture of lubricants. He was mayor of Lodz prior to his appointment as Premier and successor to M. Paderewski.

A Polish Drug Company.—The wholesale drug-house "Pharma" in Cracow is to be transformed into a company with a capital of five million Polish crowns. Of the shares 60 per cent. must be taken up by Polish citizens. The new company will not only undertake the wholesale business in drugs and pharmaceutical preparations, but will also establish a manufactory of pharmaceutical products.

Philanthropic Pharmacy.—The Czecho-Slovak pharmacists are issuing a protest to the Government, which is now supplying sodium bicarbonate at 5.90 crowns a kilo., cash in advance, while they are compelled to sell it to sick-club patients at the rate of 2.62 cr. and to private patients at 3 cr. a kilo. "And yet there are people who believe that a pharmacy is a gold-mine," they state in their protest.

Cultivation of Medicinal Plants.—A decree of the new Hungarian Ministry places the cultivation, sale, and importation of all medicinal plants under State control. Persons engaged in the collection or cultivation of medicinal plants have to report the amounts collected or harvested; and their sale requires the permission of the Commission for Medicinal plants. Pharmacists and druggists engaged in the trade must also report.

Pelion on Ossa.—The Viennese Association of Pharmacists endeavoured to obtain a supply of coal for the pharmacies from Poland. It was pointed out that it is impossible for a pharmacist accurately to weigh a fraction of a gram when his fingers are stiff owing to the intense cold and absence of all heating. The President succeeded in obtaining a promise of fifty-eight truckloads, but now he is confronted by the problem of transport.

Alcohol Prices in Poland.—The Polish Minister of Finance has established the following prices (in Polish marks) for alcohol: 1 litre of pure alcohol for hospitals, charitable institutions, and schools=20 mk.; for use in pharmacies and in the manufacture of pharmaceutical preparations=30 mk.; for other technical uses=45 mk. One litre of crude alcohol for the manufacture of vinegar =15 mk., and for disinfecting=19 mk. Denatured alcohol is priced at 15 mk. per litre.

Pharmaceutical Specialities in Austria.—The various decrees issued during the war enforcing economy in prescribing have been rescinded. The use of such medicinal preparations as are controlled by the central professional board for the manufacture of pharmaceutical specialities will in future require a special permission, which will only be granted provided supplies for such purposes do not interfere with the amounts available for dispensing prescriptions.

Ceylon Chemists and Druggists Ordinance.—The Committee appointed to consider the Chemists and Druggists Ordinance met in Colombo on December 24 to consider their final report to Government. Those present were: The Hon. Dr. G. Thornton, Acting P.C.M.O., the Hon. Dr. H. M. Fernando, Mr. C. T. Symons, Government analyst, and Mr. Cochrane, of Cargills, Ltd. Important changes are, it is understood, to be effected in the old Ordinance. The addition of several chemicals, hitherto not on the list of poisons, has been recommended. Some qualifying examination may have to be passed by those engaged in dispensing.

The Adverse Exchange Rate.—The effect of the adverse rate of exchange on the public libraries in Germany is illustrated by a statement recently made by Professor von Harnack. The State library of the Berlin University, instead of subscribing to 2,300 foreign journals, is now able to obtain only 170 periodicals. In order to purchase those works which had appeared during the war in the enemy countries, the State library had set aside a sum of 112,000 marks (nominally 5,600*l.*); to purchase them at the present rate of exchange would cost over a million marks (nominally 50,000*l.*). He also stated that large quantities of scientific publications are being sold to foreign countries, and that new editions will be indescribably costly.

A very successful exhibition was held in Calcutta in connection with the Peace Celebrations from December 13 to December 20. The exhibits consisted of imported and local manufactures, and were designed to show the progress that Bengalis have made during the war. In the drug section no European firms exhibited, and B. K. Paul & Co.'s stall was the centre of attraction. The exhibit consisted of surgical instruments made in their own factory, and among the chemicals displayed were noticed podophyllin resin, thymol, copper sulphate, potassium bicarbonate, etc. After the opening ceremony the Governor of Bengal visited their stall and expressed himself very pleased with the display. Hogan & Co., manufacturing chemists, Calcutta, made a display of pastilles and lozenges, the linseed, liquorice, and chlorodyne lozenge manufactured by them being worthy of notice. The Bengal Immunity Co. Ltd., Calcutta, had a very up-to-date show of vaccines and serums, the style and general appearance being quite as good as imported products. The Calcutta Chemical Co., Ltd., displayed acids, tinctures and specialities. Tablets and galenicals were also shown by several other firms.

Prices in Czecho-Slovakia.—Reference has already been made to the unfortunate position in which the pharmacists of some Continental countries have been placed in consequence of the tremendous differences between the cost prices of drugs and the dispensing charges laid down in the official drug tariffs. The Czech-Slovak pharmacists are in a particularly unenviable position, owing to the recent refusal of the Government of that Republic to sanction a new tariff, based on actual conditions, and have appealed to the Chamber of Commerce in Prague to advance their claims. Now they have gone a step further, and are publishing articles in the newspapers to make their position clear to the general public. In these statements they compare the present cost prices of a number of drugs with the prices at which these have to be supplied to the public, based on the rates of the tariff for prescriptions for sick-club patients. Some of these comparisons are appended below, the nominal value of the crown being 10*d.*:

	Cost per Kilo. Crowns	*Dispensing Charge* Crowns
Camphor	over 1,000	42
Cocaine, morphine, codeine	6,600	700, 1,500, 1,900
Chamomiles...	20	8
Potassium iodide	500	77
Sodium iodide	500	93
Menthol	900	126
Olive oil	32	8.60
Sulphur	40	2.70
Linseed	10-20	1.80
Soft soap	15	2.90
Bottles	average 0.50 each	0.09

In addition, they point out that according to the tariff charges for compounding medicines the work of a qualified pharmacist is remunerated at the rate of 8*d.* an hour, and ask "what workman, of whatsoever description, works to-day for this almost idiotically ridiculous amount?" The matter is now being dealt with in the National Assembly.

Belgian News.

(From our Belgian Correspondent.)

Former German Pharmacies.—There are seven pharmacies in the districts of Eupen and Malmédy, now ceded by Prussia to Belgium, and the question has already been raised, as in Alsace-Lorraine, of adapting existing pharmaceutical legislation to these cases.

Memorial to "Kultur."—The Committee of the Nationale Pharmaceutique has caused an allegorical group to be drawn by an artist, embodying the faces of the nine pharmacists who were shot by the Germans, and copies of this memorial will be presented to the families of the victims.

The rationing of sugar for the pharmacies has been reintroduced in Belgium, the distribution being entrusted to the Nationale Pharmaceutique. The same amounts will be allotted as during March and April 1919. This is a consequence of the shortage of sugar, which has induced the Government to requisition all stocks of sugar over 500 kilos. held by dealers, in order to assure a just distribution to the people.

Pharmaceutical Statistics.—The latest statistics show that there are in Belgium 1,930 pharmacists, or one for every 3,412 inhabitants. The number of medical practitioners is 3,318, or one for every 1,985 inhabitants. The kingdom possesses 2,608 parishes, in 428 of which both pharmacists and medical practitioners are established. Of the total number of pharmacies, 950 are established in the towns, and 980 in country places. There are at present 1,874 doctors who hold the right to dispense medicines under the sanitary law of 1818, and 863 avail themselves of this privilege; 650 of these practice in parishes where there is no pharmacy. In addition, 213 doctors also dispense medicines in ninety-nine parishes provided with 149 pharmacists. Thus there are in Belgium 196 pharmacists who have to meet the competition of dispensing doctors, and in the past proposals have been advanced to regulate this state of affairs. The tenth proposal has now been submitted for consideration to the Government, and this provides that a doctor shall only be granted permission to dispense on obtaining the consent of the provincial council, on the advice of the medical commission, and this permission will be granted for a period of five years only. The doctor will be required to obtain his stock from a pharmacist holding an open shop.

New Law on Specialities.—The King has signed a decree introducing new regulations for the sale of pharmaceutical specialities. The first article requires that the receptacles containing preparations known as pharmaceutical specialities, or chemical products which are registered trade-marks, shall bear on the label in legible characters the names of the substances entering into their composition, either as they appear in the Belgian Pharmacopœia or, if not enumerated in that work, their ordinary names, excluding chemical formulas. If the remedy is sold under a special designation, but is included in the Belgian Pharmacopœia, it will be sufficient to indicate the pharmacopœial title. If the speciality contains a potent drug, the amount in milligrams must be indicated on the label. All printed matter referring to specialities and registered products must also comply with the foregoing requirements as to declaration. These regulations came into force on March 1 in the case of Belgian specialities; foreign specialities are granted a delay of one month—*i.e.*, these requirements will have to be complied with in the case of specialities imported from abroad from April 1. As this decree was signed on February 10, and published in the "Moniteur" on February 19, little time has been allowed to the manufacturers and pharmacists to comply with these new regulations.

"Licor de Pulsatillacaulophylincpta" was how an export house recently described Oppenheimer's liq. caulophyllin et pulsatillæ co.

German News.

The Pharmacy in Heligoland.—The district president of Slesvig announces that the concession for the pharmacy on the island of Heligoland is open to competitors. The concession is a personal one and cannot be sold or transferred.

German Surgical Rubber Goods.—The price convention in connection with the Union of German Surgical Hard and Soft Rubber Goods Manufacturers decided recently, on an increase of 10 per cent. upon seamless and cut sheet goods and 25 per cent. on hard rubber goods.

Ex-Officers as Drug Collectors.—A company has been formed, with a capital of 300,000 mk., to promote the cultivation and collection of medicinal herbs in Germany, primarily as a remunerative occupation for demobilised officers. A colonel is the director, and one of the assistants at the institute for the study of natural sciences in Dahlem is scientific adviser to the company.

It's an Ill Wind—In illustration of the manner in which foreign dealers are at present profiting by the depreciation of the German currency, the statement of a Dutchman is adduced who said that while a certain proprietary is purchasable in Germany at 3.50 mk., it is sold in Shanghai at $5.50, a sum equal to 150 mk. at the present rate of exchange, the equivalent in Dutch money being 13.75fl.

Eyes on the Argentine.—The attention of German manufacturers is being drawn to the fact that there is an extensive market in the Argentine for remedies against diseases of sheep. It is stated that there would be a profitable field for the introduction of harmless remedies to compete in price with the English articles. Concentrated preparations are recommended so as to avoid unnecessary costs in transport. The statement is also made that the use of nicotine preparations has declined, as they are dearer than similar remedies of a chemical nature.

Germany's Wants. — The Government "Labour Gazette" (No. 11) states that the lack of coal and raw materials has resulted in numerous chemical works closing down or limiting their activities, and that, in the neighbourhood of Frankfort alone, the number of unemployed from these causes is estimated at 10,000. The manufacturers of pharmaceutical chemicals are well favoured with orders, but these cannot be filled. A few firms are able to report some improvement, but satisfactory conditions can be said to prevail only among those engaged in the manufacture of soap, washing materials and perfumery.

German Pharmaceutical Society.—At a recent meeting of the German Pharmaceutical Society, Prof. Dr Thoms stated that prior to the war Germany's total annual requirements of fats and oils amounted to 1,900,000 tons, of which 1,500,000 tons were utilised for food. On an average the fat consumption worked out at 70 grams per inhabitant before the war, and during the war was reduced to about 10 grams. The amount of fats available for industrial purposes decreased from 400,000 to only 28,000 tons. In spite of all the efforts made to utilise other sources for the supply of fats and oils, only a negligible increase was realised. He referred to the necessity of including physiological tests, in addition to the determination of the accepted constants, such as iodine value, etc., in estimating the value of a fat or oil for the production of foodstuffs. The value of a physiological test was demonstrated in the case of the oil obtained from the berries of *Sambucus racemosa*, recommended as a source of oil during the war. The results of numerous tests established the fact that the oil from the seeds is chemically as well as physiologically dissimilar from that obtained from the flesh of the fruit; the former is a drying oil, the latter is not. Further, the oil from the seeds possesses a toxic and emetic action, which is totally absent in the oil from the flesh. It was found that on heating the oil from the seeds this noxious effect was removed.

The Profiteering Act.

Notes.

A Nebulous Committee.

At a recent meeting of the Hoddesdon Urban District Council, the clerk reported that the Profiteering Act Department of the Board of Trade had written asking the Council to appoint a lady on the local Profiteering Committee. A Member: What is the Profiteering Committee, Mr. Chairman? I was chairman of it once, but I have not heard much about it. Another member said it was nothing more than a farce. It was a waste of time and energy. "What about Mrs. Grundy?" inquired a councillor. No one was appointed.

Sir Herbert Nield's Suggestion.

In an address to his constituents at North Ealing Schools, on February 27, Sir Herbert Nield, M.P., said his experience as chairman of a Committee under the Profiteering Act had led him to impress on the authorities the necessity of introducing amending legislation to cover the case of proprietary articles. Sir Herbert said this applied particularly to articles sold in chemists' shops, so large a proportion of which were now proprietary articles, and as such could not have their costs examined item by item under the existing powers.

Report on Motor Fuel.

The Central Profiteering Committee issued on March 1 a report of the prices of petrol, benzol, and other motor fuels. It finds that two trusts practically control the supplies of the world and the machinery of transport and distributien. While the cost to the consumer of petrol to-day is 3*s.* 8½*d.* per gallon, it could be sold and a good profit obtained at 2*s.* 10½*d.* The only inexhaustible supply is power alcohol, the production of which in the British Empire should be encouraged. The Committee thinks that the whole question of the production, price, and distribution of petrol should engage the attention of the League of Nations or be made the subject of agreement between the Governments of the principal importing nations. The report goes on to deal with benzol, pointing out that the annual production before the war was 17,000,000 gallons, that during the war the output was increased to 42,000,000 gallons, and that this has now been reduced to 25,000,000 gallons. The Committee finds that the price of benzol has been regulated by the National Benzol Association to conform with the price for petrol, and is not based on the cost of production. It further finds that the price of benzol should be fixed at 2*s.* 8*d.* per gallon, and urges that the export of benzol and toluol should be prohibited.

Complaints.

Birmingham.—At a recent sitting of the Profiteering Committee, a trader was ordered to refund 5*d.* on a charge of 2*s.* 6*d.* made for a pint of linseed oil.

East Ham.—At the sitting of the Profiteering Committee on February 26, Parke's Drug Stores, Ltd., were the respondents in a complaint of alleged overcharge for sweet spirit of nitre at 83 High Street South, E. 6. It was stated that an agent of the local inspector under the Sale of Food and Drugs Acts purchased 3 oz. of the spirit to be submitted to the public analyst. He tendered two florins, and was given 1*s.* change. The analyst's certificate did not warrant legal proceedings being taken, but a complaint in respect of the price was lodged. It was added that at other shops 6*d.* or 6½*d.* per oz. was charged for the spirit. Mr. Francis Charles Kelly, chemist and druggist, who has managed this branch for Messrs. Parke for the past five years, stated in evidence that 2*s.* was tendered and charged on the occasion in question. The agent said that Mr. Kelly admitted having charged 3*s.*, but this was denied. Mr. G. Washington Fox, who appeared for the respondents, said that the amount alleged to have been charged was so outrageous that no chemist would have thought of charging it. The case was adjourned on account of the absence of the inspector.

Lambeth.—Mr. F. J. Williams, trading as Williams & Perry, 31 Robsart Street, S.W. 9, appeared in answer to a complaint of having charged 2*s.* 6*d.* for a packet of Hobson's Choice corn-plasters sent by post. The complainant wrote stating that she was too ill to appear. The respondent said he received a postal order for 2*s.* from the complainant's husband. He never intended charging for the plasters, which were only samples. The Committee decided to adjourn the case.

Lewisham.—A pharmacist has been officially notified of a complaint of having charged 1*s.* for 1½ oz. of ung. hyd. ox. flav.

Tewkesbury.—A pharmacist has been officially notified of a complaint of having charged 1*s.* for a tablet of Erasmic verbena bath-soap.

Wholesale Druggists' Fire.

On February 27 a serious outbreak of fire occurred about 1.30 A.M. at one of the factories (generally known as Devon Wharf) of C. R. Harker, Stagg & Morgan, Ltd., wholesale druggists, Emmott Street, London, E. 1, which resulted in considerable damage to the upper floors of the buildings. The departments involved were those devoted to printing and the putting-up of packed specialities. A large force of firemen was quickly on the scene, and, with the assistance of a fire-float brought up on the canal which runs alongside the factory, soon produced an impression on the flames and successfully confined them to the building involved, thus preventing them from spreading to the other Devon Wharf factories and warehouses adjoining. The general offices below the packed-goods floor were affected by the heat and water, but fortunately the documents and books belonging to this department were recovered almost in their entirety. The manufacturing laboratory, wet-room, and stores at Devon Wharf were only slightly damaged, while all other departments in this factory were untouched by the fire. The warehouses and factory known as Bell Wharf, the Canal Road premises, and those in Emmott Street are quite unscathed, and are available for the accommodation of the staff of the damaged departments of Devon Wharf. The loss due to the fire, which is considerable, is fully covered by insurance. When the heads of departments reached the sceno of the fire, it was found that the private telephone exchange had been put out of action, and that no means of telephonic communication existed. While the fire brigade was still pouring streams of water on the building, a temporary line was run to the Emmott Street premises, and among the first messages to come through were expressions of sympathy and offers of practical assistance from several well-known houses in the wholesale drug-trade, the news of the fire having evidently spread quickly. Arrangements were at once made to accept these offers so far as was necessary for the execution of a certain proportion of the orders. The company's motor-vans made the carrying-out of this arrangement quite easy, and the departments concerned having been transferred to the Bell Wharf factory and, aided by a small army of carpenters, comfortably installed there, goods were soon going out in the usual manner, although in limited number. The clerical staff also found a temporary home at Bell Wharf by removing to other warehouses crude drugs hitherto stored there. Accommodation has been provided for the *personnel* of most of the departments exiled from Devon Wharf, and work is now proceeding at high pressure, the staff generally having shown the utmost devotion and loyalty. Certain of the smaller departments have settled down at the Canal Road premises on the other side of the water, while the costing department, private office, and managing director's office, are now housed at the Emmott Street premises. The manufacturing laboratory is but little injured, and it is expected that in a short time normal conditions will be restored. It will then be possible to dispense with the assistance of those houses who have generously come forward to help, and have thus enabled the business to be carried on almost as usual.

Legal Reports.

Traveller's Claim for Salary.—In the City of London Court, on February 24, before Mr. Registrar Wild, a claim was made by Mr. C. M. Field, commercial traveller, 20 Ardgowan Road, Catford, E.C., against the Capital and Counties Trade Development, Ltd., dealers in rubber goods, 100 Victoria Street, S.W., for 4*l.* 10*s.*, a week's salary due from the defendants. A representative appeared for the defendants, and said that the plaintiff held certain books which he declined to let them see, and without which the defendants could not say whether the money sued for by the plaintiff was due. The plaintiff said he had certain books in his possession which the defendants had examined from time to time, and the amounts which he had received were shown and accounted for each week. If he handed the books over to the defendants he would be without proof of the money he had paid over to the defendants. The Registrar asked if the plaintiff would produce the books for inspection. The Plaintiff: To your Honour, certainly. The Registrar said he did not want the books. The defendants' representative said they had offered to give the plaintiff a full receipt for any books received. The Registrar said he could not make an order for delivery up of books if they were important to the plaintiff. They might contain a list of his customers. The case was eventually adjourned for the defendants to have inspection of the books at the plaintiff's solicitor's office, all questions of costs being reserved.

Claim against a Dentist.—In the King's Bench Division on March 2, Mr. Justice Sankey heard a claim by Mr. St. John Billingsley Roscoe, The Elms, Kingsland, Hereford, against Mr. Charles Edward Wallis, dentist, Queen Anne Street, Cavendish Square, London, for damages for alleged negligence in breaking a tooth. Mr. Inskip, K.C., for plaintiff, said the latter was sixty-three years of age and had not a single false tooth. The defendant had been plaintiff's dentist for some years, and on January 9 last year plaintiff went to him to have a bad tooth seen to. Instead of this tooth being extracted, a tooth next to it—a sound tooth—was broken off by, as the plaintiff alleged, want of skill. The bad tooth was left in the jaw and had to be stopped. The healthy tooth was broken by the defendant when apparently he was about to extract, or attempt to extract, the unsound tooth. Mr. Wallis, the defendant, in evidence, said he advised the extraction of an unsound tooth. Plaintiff's lower jaw was very crowded with teeth, and when the forceps were applied to the tooth with the cavity and the necessary pressure was used the adjacent tooth snapped off close to the gum. There was nothing to indicate that such an accident was likely to happen. He exercised the greatest care and used special forceps. His Lordship said it was one of those exceptional cases in which accidents would happen, even when the greatest possible skill and care were exercised. Sorry as he was for plaintiff, he did not see there was a rag of evidence of negligence on the part of the defendant, and he dismissed the action, with costs.

Rice-starch Dispute.—In the City of London Court on March 1, before His Honour Judge Atherley-Jones, K.C., the Wilmac Produce and Manufacturing Co., Ltd., 14 Bow Lane, E.C., made a claim against Mr. G. C. Gagan, merchant, 109 Inville Road, S.E., for 100*l.* Mr. O'Hagan, for the plaintiffs, said plaintiffs' case was that on July 23 defendant contracted to buy from them twenty-one tons of Wilmac rice-starch powder, a proprietary article equal in quality to the submitted sample, at 66*l.* 10*s.* per ton. Defendant had frequently been requested to take the goods and pay for them, and refused, and plaintiffs had suffered damage to the amount of 5*l.* per ton. Defendant counter-claimed for 13*l.* 19*s.* 3*d.* commission at 1 per cent. on the sale of the same goods, amounting to 1,396*l.* 10*s.* Mr. O'Hagan said that the defendant was claiming for an account to be taken of all other transactions between the plaintiffs and Garnett & Bird, and they were claiming 1 per cent. commission on these transactions. Plaintiffs' answer to that was that the defendant had no authority to introduce plaintiffs to Garnett & Bird, and did not do so, and that any transaction in which Garnett & Bird were concerned was as principals contracting with the defendant, and not with the plaintiffs at all. On June 18 plaintiffs wrote the defendant, and said, as instructed by Garnett & Bird, of Peninsular House, Monument Street, they confirmed the sale to him of from eight to ten tons of rice-starch powder as submitted to Garnett & Bird as per sample. The price was 65*l.* per ton, free on board London. Mr. William McKay, plaintiffs' managing director, was called in support of the plaintiffs' case, and he said he would have made a profit of 6*l.* or 7*l.* a ton, approximately, on the sale of the twenty-one tons of rice powder now in dispute. He never gave authority to the defendant to introduce persons to him to do business. He never promised the defendant a commission of 1 per cent. on all transactions carried out for them. Mr. Garnett Wells, of Garnett & Bird, said his firm had never given the defendant a commission or a bonus or anything of the sort. The further hearing of the case was adjourned until March 16.

Honey Contracts—In the King's Bench Division on March 2, Mr. Justice Darling heard an action brought by Mr. Walter Frederick Reynolds, colonial produce merchant, Colonial Chambers, Crutched Friars, London, E.C., against Manifarges Bros., Ltd., Camomile Street, E.C., to recover damages for alleged breach of contract to accept and pay for fifteen cases of Australian honey. Sir Patrick Rose-Innes, K.C., for the plaintiff, said the contract was contained in letters which passed between the parties in October 1918, and was repudiated by the defendants in a letter of November 29 of the same year, in which they wrote: "When we bought these goods we understood that the boat was arriving in a few days' time. Kindly cancel our order, as we are not in a position to wait any longer." In consequence of the defendants' refusal to take up the goods, said counsel, they were sold by auction at Mincing Lane, and realised 35*l.* The price the defendants had agreed to pay for the honey was 144*l.*, and the plaintiff now claimed to recover the difference of 109*l.* as damages. The vessel bringing the goods left Sydney on October 4, and reached Liverpool on December 15. Plaintiff, giving evidence, said the contract was made as a result of a telephonic conversation he had with Mr. Manifarges, of the defendant company. Cross-examined by Mr. Powell, K.C., for the defence, witness said he bought the honey from the brokers when he offered it to the defendants. Did you say the ship would arrive in a few days?—I did not. I said it might arrive. Other evidence was given that the honey was sold to druggists for the manufacture of medicines, and that there were no complaints from the buyers as to its quality. Mr. Cornelius Manifarges, member of the defendant firm, said he was assured when he agreed to purchase that the honey would arrive in a few days. He accordingly arranged to re-sell to different customers, who, as the goods did not arrive, constantly worried him for delivery. He would not have entered into the bargain if he had been told the goods were so far off. Mr. R. G. Grimwood, analytical chemist, said he examined samples of the honey on April 25, 1919. There was no evidence of contamination by eucalyptus. It was peculiar in flavour, but not unpleasant, and contained chips of wood. Was it high-grade or low-grade honey?—It was not fit for table use. Replying to the Judge, witness said that Australian honey had a peculiar flavour. His Lordship: Do you know what this is due to?—Their flowers are different from ours. Generally speaking, the flowers in Australia have a much stronger scent, and this scent always enters into the honey. In certain Australian honey there is a suspicion of a eucalyptus-like flavour, but not a pungent or unpleasant one. In other cases you get a faint suspicion of mimosa. Addressing the Judge, Mr. Powell suggested that the honey fell in price because of its condition. The fact that the buyers did not complain was not remarkable in view of its low price. Further, druggists were able to refine these goods. His Lordship, giving judgment, said the defendants had claimed to reject the goods partly on the

ground that they were unmerchantable, but he found that that defence failed; the only defect was that the honey contained pieces of wood. Then the question arose: Were the defendants induced to take the goods by the statement that they would arrive in a few days? He did not think so. Mr. Reynolds could not possibly know any better than the defendants when the ship would arrive. Everybody knew ships might be sent to the bottom at that time, or they might be diverted by the Admiralty. Then the Armistice came and prices fell; the people who had bought repudiated their contracts, and the people who sold insisted on them. These things came in cycles, and he had often seen them. He found the plaintiff's case proved, and gave judgment for him for 109*l.*, with costs.—Damages for an alleged breach of contract to accept and pay for a consignment of white Californian honey were claimed in an action brought before Mr. Justice Lush, in the King's Bench Division, on March 3, by Alfred Mulholland MacGrotty, broker and merchant, Fowkes Buildings, Great Tower Street, London, against Daniel G. Smith, Dale Road, Purley. Sir Rose-Innes, K.C., and Mr. Alfred Brunet, instructed by Mr. E. E. Brook, appeared for the plaintiff, and Mr. Austin Farleigh, instructed by Messrs. Leoni & Deards, for the defendant. Plaintiff's case was that by a contract dated November 16, 1918, defendant agreed to purchase from him, subject to safe arrival, fifty cases, each containing two tins of 56 lb. each, of white Californian honey, c.i.f., including war insurance, to be delivered to defendant in London or some other port in the United Kingdom. The price agreed was 230*l.* per ton cash, payable in exchange for delivery order. Defendant, it was alleged, refused by letter dated December 4, 1918, to accept the goods or any part of them, and as a result plaintiff claimed 422*l.* damages. Defendant did not admit the contract, but alternatively said that plaintiff discharged him from liability by failing to ship goods corresponding to the description, and by failing to insure against war risk. He contended that the honey shipped was not Californian honey, and that on November 16, 1918, plaintiff verbally represented to the defendant that the goods were afloat on their way from New York, whereas they were not then afloat. The honey was not delivered within the time in which goods offered on November 16 ought to have been delivered. Defendant further said plaintiff repudiated the contract, and he (defendant) accepted the repudiation by letter dated December 4. Plaintiff, in cross-examination, maintained that the honey had the delicious taste and aroma of Californian honey. On Thursday judgment was given for the defendants, with costs.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

McConnell & Brett, Ltd. (P.C.).—Capital, 1,000*l.* Objects: To take over the business of a chemist and druggist carried on by F. Ellis at Camberwell, S.E., as "Gadd," and to enter into an agreement with C. McConnell and H. H. Brett, who are the first directors. R.O.: 164 Wyndham Road, Camberwell New Road, London, S.E.

John Knight, Ltd.—At the ordinary general meeting at the Great Eastern Hotel, Liverpool Street, E.C., held on February 27, Mr. John W. Hope, in moving the adoption of the report and declaring a dividend of 9½ per cent. for the last half-year, making 12½ per cent. for the year on the ordinary capital, alluded to Lord Leverhulme's offer to purchase all the deferred shares of 1*l.* each at 13*l.* 10*s.* per share. It would be difficult, he said, if not impossible for the company to pay a dividend of 25 per cent. on the ordinary shares, for the reason that if the shares received a dividend of 6 per cent. the remainder of the profits earned had to be divided equally between the deferred shares and the ordinary shares. He therefore recommended the acceptance of the offer.

H. H. Warner & Co., Ltd.—In the Chancery Division on March 2 Mr. Justice P. O. Lawrence heard a petition by H. H. Warner & Co., Ltd., for the sanction of the Court to a scheme of arrangement with its debenture holders. Mr. H. E. Wright stated that the company was an old one, formed for the purpose of manufacturing and dealing in drugs and patent medicines. The scheme was a very simple one, the object being to extend the date when the debentures fell due to March 1925. There was 51,600*l.* worth outstanding. None had been redeemed since 1914. The company had valuable property in America, which it intended to sell. His Lordship sanctioned the scheme.

International Sponge Importers, Ltd.—The report for the year ended December 31, 1919, states that the net profit for the period amounts to 18,407*l.* 19*s.* 7*d.*, which, with the balance from last account (less excess profits duty payment) of 628*l.* 0*s.* 3*d.*, amounts to 19,035*l.* 19*s.* 10*d.* The appropriation of profit is as follows: Amount of preference share dividend for the year, 7,500*l.*; interim dividend of 2*l.* per cent. paid upon the ordinary shares, August 9, 1919, 3,128*l.* 15*s.* 1*d.*; general reserve in accordance with the articles of association, 903*l.* 2*s.* 5*d.*; income-tax reserve, 441*l.* 15*s.* 3*d.*; proposed final dividend of 3*l.* per cent. upon 156,438 ordinary shares of 1*l.* each, 4,693*l.* 2*s.* 9*d.*, leaving a balance to be carried forward, subject to excess profits duty, of 2,359*l.* 4*s.* 4*d.* An interim dividend of 2*l.* per cent. was paid upon the ordinary shares on August 9, 1919, and the directors now recommend that a further dividend of 3*l.* per cent. be paid, making a total distribution for the year of 5*l.* per cent. upon the ordinary shares. The retiring directors are Mr. G. S. Marks and Mr. Edgar Cohen, who offer themselves for re-election.

Evans Sons Lescher & Webb, Ltd.—The report of the directors for the year ended December 31, 1919, states that all trade expenses have been written off, and ample provision made for bad and doubtful debts, depreciation, advertising, trade-marks, income-tax, and leasehold sinking fund, also for excess-profits duty. The directors have to report a very satisfactory year's trading in all departments. During the year three much esteemed senior representatives of the company retired on pension, viz.: Mr. Alfred Mills, forty-seven and a-half years' service; Mr. J. T. Collis, forty-two years' service; and Mr. W. T. Willdey, thirty-seven and a-half years' service. The best wishes of the directors go forth to them on their retirement. To meet the greatly increased export trade the directors have purchased a large property in Seel Street, Liverpool, adjoining the company's present premises. Satisfactory progress is being made with the new buildings in Bartholomew Close, London. The directors are pleased to report that the trade opened with new foreign customers during the war has been maintained. In October last the company made an issue of £150,000 new ordinary share capital, and were much gratified with the response made by their customers both at home and abroad, and by existing preference shareholders. The amount was applied for nearly three and a-half times over, and the application lists were closed two days before the advertised time. No part of the issue was underwritten. In accordance with the terms of the prospectus the premiums, after payment of expenses, have been added to the reserve. The directors much regret that so many of their customers and friends were disappointed in the allotment. The cordial relations with the National Drug and Chemical Co. of Canada, Ltd., continue. Interest on the debenture stock, dividend on preference shares, and an interim dividend on ordinary shares in July last, together with fees and salaries to the directors, having been duly provided for, there remains an available balance of 57,124*l.* 3*s.* The directors recommend that for the second half-year a dividend at the rate of 10 per cent. per annum be paid on the ordinary shares, making 10 per cent. for the year free of income-tax, with a bonus of 5 per cent. for the twelve months, also free of income-tax; this, with the interim dividend of 10 per cent. per annum declared for the first half-year, and placing 19,234*l.* 13*s.* 7*d.* to reserve, which will then stand at 110,000*l.*, leaves 20,076*l.* 19*s.* 5*d.* to be carried forward.

Pharmaceutical Society of Great Britain.

Council-meeting.

A meeting of the Council was held on March 3 at 16 Bloomsbury Square, London, W.C. The chair was occupied by the President (Mr. W. L. Currie), and all the members were present with the exception of Mr. H. Wolff. A private meeting was held the previous evening, at which the minutes of the meeting held on February 4 were read and confirmed; but no report of the business subsequently transacted was communicated, except the following:

Question.—Mr. Skinner called attention to advertisements issued to the Press by the Central Recruiting Depôt advertising training-vacancies in the Royal Army Medical Corps for dispensers, and asked what action, if any, it was proposed to take.

Answer.—The intention of the War Office was drawn to these advertisements by a letter on February 2. A reply had been received, dated February 26, stating that steps had been taken to delete the term "Pharmacist" from such advertisement in future. Further representations would be made as to the rest of the advertisement.

Death.

The President said that he felt it his duty to refer to the death of Mr. Hermann Woolley (Manchester), who for many years had been a loyal supporter of the Society, and had taken a keen interest in the educational side of its work.

Mr. Rymer Young, in response to a request from the President, said that he knew the late Mr. Woolley as a student at the school, as a contemporary of his own, who had always been recognised by all who knew him as a downright good man. An athlete in his younger days, Mr. Woolley had always been one whose acquaintanceship and friendship it was a pleasure to possess. He had not known Mr. Woolley to take any great interest in pharmaceutical matters. By his death Manchester lost a good citizen, pharmacy lost a very fine specimen of its craft, and the general community a man of capacity, ability, and worth. Mr. Woolley was one of the earliest Pereira medallists.

It was resolved that a letter of condolence be forwarded to the relatives.

Elections and Restorations.

It was agreed that forty-two persons be elected members of the Society; that 253 be elected student-associates; that seventeen be restored to the Society; and that two be restored to the Register. The registrar reported that since the last meeting there had been 104 registrations of apprentices as students.

Correspondence.

The secretary intimated receipt of a letter from the Privy Council covering a copy of the report by Dr. Balfour Marshall on the examinations held by the Society in Edinburgh in 1919. He added that it was usual for this report to be sent to the examiners for their observations. It was decided that this course should be followed.

A letter from the trustees of the London parochial charities was read with reference to the Chelsea Botanical Gardens, in the course of which it was pointed out that in consequence of the increase of wages paid to those employed in them, it was necessary that societies and organisations which contributed to their maintenance should increase the amount of their annual subscriptions if the gardens were to be maintained in even their wartime condition. It was suggested that the Society should increase its annual grant of 10*l.* 10*s.* It was mentioned that the University of London had increased its annual subscription by 50 per cent. It was resolved to refer the letter to the Library Committee.

A letter from Dr. James Small, dated February 26, stating that, having been appointed Professor of Botany at the Queen's University, Belfast, he desired to resign his position as lecturer on botany at the School of Pharmacy at the end of the present term.

Mr. White explained that Dr. Small's letter arrived t late to be considered at the recent meeting of the Libra Committee. He was informed, however, that Dr. Sma was entitled to resign at a month's notice. Having ma inquiries, he had come to the conclusion that, though t resignation of that gentleman would place the Socie in a difficulty, they would be able to carry on the scho successfully by making other arrangements till the er of the session. He could not, however, miss the oppo tunity of saying how delighted the Council were that o who had formerly been a student at the Society's scho had been appointed to what was regarded as one of t most important positions connected with the study botany in one of the principal universities of Irelan It was the earnest hope of all members of the Coun that Dr. Small would meet with every success, and ev still further distinguish himself.

Finance Committee.

The financial statement is summarised as follow Receipts since the last meeting, including a balance 4,776*l.* 2*s.* 8*d.*, amounted to 8,558*l.* 18*s.* 9*d.*, made up follows: Rent, 6*l.*; penalties and costs, 35*l.* 13*s.* 10*d* "Journal" and publications, 110*l.* 14*s.* 9*d.*; registratio fees, 235*l.* 4*s.*; subscriptions, 3,351*l.* 1*s.* 6*d.*; examinatio fees, 40*l.* 19*s.*; restoration-fees, 3*l.* 3*s.* After deductin payments amounting to 2,191*l.* 14*s.* 2*d.*, authorised at t last meeting, and 2,000*l.* placed on deposit, there was balance of 4,367*l.* 4*s.* 7*d.* The other balances wer Benevolent Fund (current account), 569*l.* 2*s.* 7*d.*; Benev lent Fund (donation account), 366*l.* 13*s.* 3*d.*; W Auxiliary Benevolent Fund, 886*l.* 10*s.*; Orphan Fun 172*l.* 6*s.* The financial statement of the Local Associ tions Executive Committee for the period, December 3 1919, to February 12, 1920, showed an income 314*l.* 1*s.* 10*d.*, and expenditure 689*l.* 10*s.* 7*d.* T report of the Finance Committee recommended the pa ment of accounts amounting to 4,338*l.* 19*s.* 9*d.*, and th the action of the secretary in making payments 607*l.* 2*s.* 3*d.* be approved.

The Committee had considered the present absence any effective control by the Finance Committee over th Council's expenditure. The present terms of referenc were:

to regulate and examine accounts, check receipts, exami bills, and present to the Council such accounts as may ha been approved for payment; also to deal with freehold ar other investments.

In 1907 a special financial inquiry committee made t following recommendation:

That the procedure of the Council be so amended that future no Committee shall have power to authorise ar expenditure on the General Fund unless and until the pr posal involving the expenditure shall have been submitte to the Finance Committee and reported upon by the Co mittee to the Council.

The Finance Committee now recommended, in substit tion of the foregoing, the adoption of the followin resolution:

Before the Council shall authorise the expenditure on t General Fund account of more than 25*l.* on any one item, shall consider an estimate for the expenditure together wi any report thereon, if any, which the Finance Committe may submit. Any proposal involving the expenditure over 25*l.* shall be submitted by the secretary to the Finan Committee, who shall present to the next ensuing meeti of the Council an estimate for the amount, together wi any observations which the Committee may deem it necessa to make.

The Treasurer (Mr. Bilson), in moving the adoptio of the financial statement and of the Committee's repor said that the question of the Council's control expenditur had received careful attention from the Committee, fo lowing on the discussion at the previous meeting o the advisability of the Council's increasing that contro (*C. & D.*, February 7, p. 85). It was discovered tha apparently in 1907 there was a recommendation wit that object in view, of the existence of which mos of the Council seemed to be unaware. The Committe recommended the adoption and enforcement of the resolu tion passed in 1907, with slight alterations, in order tha

the principle of control over expenditure should be strictly observed, at the same time avoiding the possibility of any expenditure recommended by the Council being vetoed by the Finance Committee. The resolution now recommended would, in the opinion of the Committee, answer the purpose which the Committee had in view.

The financial statement and report by the Finance Committee were then received and adopted.

Local Associations Executive Committee.

The report of this Committee, dated February 17, intimated receipt of a letter from the Ministry of Health confirming the terms offered on January 6 by the Ministry in connection with Insurance dispensing service for 1920. The changes in the draft constitution and rules of group federations submitted by the West Midland and North Wales Federations were considered. Among the suggestions made by the West Midland were that the Executive Committee of the Federation should consist of nine members instead of eight, that the secretary should be paid 20*l*. per year instead of 15*l*., that the rules providing for a joint executive of the sub-federations in the group, and for a general secretary for the group be deleted, and that the West Midland Federation be made entirely autonomous, leaving the question of combinations for any purpose to be dealt with by the Federation in the group. The North Wales Federation suggested that the representation at federation meetings be one delegate to every twenty-five members of an association instead of one to every fifty members, and that the Executive Committee of the Federation should consist of ten members instead of eight. The other suggestions from North Wales were identical with those submitted from the West Midlands. The Executive Committee recommended that the suggested alterations be approved. The secretary had reported that a letter had been received from the British Medical Association regarding the appointment of a Joint Standing Committee to deal with matters connected with National Health Insurance of mutual interest to doctors and pharmacists, which, it was suggested, should be called at the instance of either side. The L.A.E. approved the establishment of such a committee, and suggested the appointment of Messrs. Deakin, Rowsell, Nidd, and Ridyard as the representatives of the Society. In accordance with an invitation received from Burroughs Wellcome & Co., Messrs. Rowsell, Lloyd, Melhuish, and Waring were appointed representatives to meet that firm to discuss the profits on, and the issue of price-lists for, the firm's goods. The report also stated that Messrs. French and Mallinson attended the conference at Central Hall, Westminster, on February 24, at which the decision of the Navy and Army Canteen Board to establish retail shops in garrison towns was considered, and reported that it was there decided to take steps to focus Parliamentary opinion on the project, with a view to some limitation being placed upon the very wide powers now possessed by the Navy and Army Canteens Board.

Mr. Skinner, commenting on the references to the formation of group federations contained in the report, said that it seemed to him rather curious that the L.A.E. were suggesting that the alterations in the draft constitution and rules enumerated be approved and so forth, while at the same time they were issuing a circular-letter simply asking people to hold up everything pending something else that might happen. To him this proceeding appeared illogical. They could not reasonably adopt certain alterations and at the same time ask people to stay their hands.

Mr. Deakin (chairman L.A.E.) asked to what circular-letter Mr. Skinner particularly referred.

Mr. Skinner replied that the one to which he referred was that issued at the end of the previous week in which reference was made to contemplated alterations in the Federation system under which it might be entirely scrapped and subsequently put on a new basis. In that circular-letter the L.A.E. asked the various Associations to hold up in regard to these alterations, and yet supported those submitted to them by the organisations named. The two attitudes were entirely inconsistent.

Mr. Deakin stated that the circular-letter to which Mr. Skinner alluded did not at all involve the holding up of the formation of the group federations, in connection with which the work went on as formerly. The recommendations in the present instance involved questions of reconstruction afterwards.

Mr. Hines pointed out that the report of the L.A.E. gave no information as to anything being done in connection with the proposed amendment of the Medicine Stamp Duty, and no observations on the probable bearing of Unemployed Insurance on pharmacy. He asked if anything had been done in connection with either of these matters.

Mr. Deakin replied that the L.A.E. could make no recommendations at present. The Medicine Stamp Duty had been repeatedly before the Committee, but up to the present they had not arrived at any conclusion of a definite character which they considered they could with advantage submit to the Council for consideration.

The report was then unanimously adopted.

Benevolent Fund Committee.

The report of this Committee stated that certain applications for assistance were considered, and recommended that grants of 10*l*., 15*l*., 26*l*., and 8*l*. 8*s*. be made.

The report was adopted.

War Auxiliary Benevolent Fund Committee.

After enumerating various instances in which payment of grants was recommended, the report of this Committee stated that the future of the Fund had been discussed and that the secretary had been directed to draft amended objects of the Fund so that it might be available for the orphan children of non-members and the adult daughters of registered chemists.

Mr. Hines expressed the opinion that the Fund should make some provision for assistance being rendered to ex-Service men in cases where hardship might arise through their having to go some distance in order to attend a school or other educational centre.

The Secretary replied that in the great majority of cases the Society had nothing to say as to the amount of maintenance grant made to ex-Service men, because that was dealt with by the Interviewing Board, upon which a pharmacist representative sits. The cases where men had to remove somewhere away from their own homes were known to the Board, who had a record made of all the circumstances, and bore these in mind when dealing with applications. Where there happened to be a school within the immediate neighbourhood, or quite close to the applicant's home, the Interviewing Board made its recommendation as to grant on the assumption that the candidate would live at home. If, however, it was subsequently found that he could not go to that school, and had to remove some distance in order to attend one, circumstances which were not before the Interviewing Board in the first instance were submitted, when any fresh application for a grant was made. He had found in quite a large number, where hardship had arisen from conditions such as those Mr. Hines had indicated, that increased grants had been made.

The report was then adopted.

Library Committee.

The report of this Committee stated that further consideration had been given to the question of the recognition of schools for the purposes of the Regulations in the light of Major Peck's reports on his visits to these. In this connection the Committee recommended : (1)

That the following classes of institutions should be recognised as a matter of course, provided on inspection they were reported upon as suitable with regard to equipment, *personnel* of staff, and the courses provided:

(*a*) Institutions recognised by the General Medical Council, the Royal College of Physicians and Surgeons (London), the Royal College of Physicians and Surgeons (Edinburgh), the Faculty of Physicians and Surgeons (Glasgow), and the Institute of Chemistry for the subjects of chemistry, physics, and botany.

(*b*) Institutions provided by University and Local Education Committees under the control and recognised by the

Board of Education where the courses are recognised by the London University for their Intermediate science examinations. These would include technical colleges and secondary schools.

Any application from schools other than the above should be considered by the Council on its merits, and after such inspection as the Council may think fit to order.

and (2)

That in view of the large increase during the last year in the number of institutions where the second part of the examination can be taken, it is undesirable to encourage the provision of further facilities for instruction in the second part of the examination.

With reference to the new regulations for the Qualifying examinations, the Committee had before them Major Peck's reports of his visits to the schools of pharmacy, particularly those which had been established for the first time by public authorities this year. They had also taken into consideration the fact that it is likely that there will be as many ex-Service students receiving a Government grant for a nine-months' course to commence in October next as there are at present in the schools. They were satisfied from the reports submitted that it is expedient that the coming into operation of the new syllabus for the Qualifying examination should be postponed, and accordingly recommended :

That candidates for the Qualifying examination be given the option of being examined upon the present syllabus up to and including the examination in October 1921, and that the regulations be modified accordingly.

The Committee expressed the opinion that the regulations as to the 4,000 hours' practical training for the Qualifying examination should prescribe that after a suitable interval the practical training, as in the case of the curriculum for the first part of the examination, should be taken subsequently to the registration as a student of the candidate. They therefore recommended :

That the regulations be modified so as to provide that the 4,000 hours' period of practical training be taken subsequent to registration, or in the alternative prior to December 1922.

The Committee also appended to their report a draft, for submission to the local Associations, of an explanatory statement for the proposal of the preparation of a record of the military and other services rendered during the war by British pharmacists and others connected with pharmacy as individuals or collectively. They recommended that the action of the President in authorising the installation of a still at a cost of approximately 60*l.* for the Minor Laboratory in the School be approved.

Mr. E. White, in moving the adoption of the various recommendations of the Committee, said that there are institutions which should, on the face of their respective constitutions, be recognised by the Society for registration as schools. The Committee had found that those referred to conformed to requirements, but it would, of course, be necessary to have a special report on each of them before they were actually admitted to the register of schools recognised by the Society. With reference to the regulations for the Qualifying examinations, the Committee felt that there would be some difficulty in enforcing the regulations on the previously suggested date for the new syllabus coming into operation. New schools had been, and were now being, carried on by those who were quite new to the business, and it was thought that a little time should be afforded them to get used to the new syllabus, and that it was too much to expect them to face it in the interval before the date fixed for its coming into operation. The Committee also felt that next year there would be a great proportion of ex-Service men going into the schools, and that from a sense of fairness they should be allowed to go to them on the same syllabus as other students. It was the desire of the Committee in making the recommendation to remove any sense of grievance.

Mr. Sargeant expressed his pleasure that the Committee had arrived at the decision referred to by Mr. White. He regarded it as unfair to ask ex-Service men to take an extended syllabus on going into the schools, even although the extension on the old one was not very great.

Mr. White remarked that the Committee had come to the conclusion that the regulation as to the 4,000 hours' practical training was not quite clear, and suggested the expression of opinion mentioned in the report in order to make sure that no ambiguity should arise as to the Society's requirements. He then formally moved the adoption of the report of the Committee and of the following resolution :

That the regulations for the conduct of the Qualifying examination made on August 6, 1919, be amended as follows:

Page 9, insert in paragraph headed "Second Part of the Qualifying Examination," line 8, after the word "been," the following :

"Subsequent to his registration as apprentice or student or prior to December 31, 1922."

Page 10, leave out "After July 31, 1920, and until further notice, the Qualifying Examination shall be as follows," and insert :

"After October 31, 1921, and until further notice the Qualifying examination shall be in accordance with the following syllabus, but candidates may elect to be examined in accordance with this syllabus at any examination held after July 31, 1920, until further notice."

The report and resolution were adopted.

Dispensing in Prisons.

Mr. Skinner, in terms of notice given, called attention to the dispensing service in prisons. He said that the matter, notice of which he had given, arose out of a letter which reached him regarding changes which were apparently taking place in the dispensing services of His Majesty's prisons. The number of the prisons was small, possibly six or seven, and the point might seem to make small difference to pharmacists, but an important principle was involved. Some years ago the principle was conceded that the dispensing of medicines at prisons like Brixton, Pentonville, and Dartmoor should be under the charge of a qualified pharmacist. In consequence, however, of many of the young men having had to leave these institutions for the war, strict observance of that principle seemed to have been weakened. Men had been shifted about from one prison to another, and the result had been that the officials of the Department concerned did not appear to have taken the trouble to replace a pharmacist removed from one prison to another by another pharmacist. There had, in consequence, been a weakening of the general principle that prisoners should have equal service to any other human being as regarded medical service from a pharmaceutical point of view. It occurred to him as a result of receiving the letter to which he had referred, that that was a suitable opportunity for the Council to take the necessary action for getting into touch with the Commissioners of Prisons with the view of influencing them to adhere strictly to the arrangements which observance of the principle would ensure. He did not propose to move a resolution, but would hand to the secretary the document which had reached him, and ask him to undertake to get in touch with the Commissioners on the subject. He thought it would only be right for the Council to endorse any action the Secretary might take in the direction indicated.

The Vice-President (Mr. Rowsell) expressed entire concurrence with Mr. Skinner's recommendation, adding that it was their duty as the Council of the Pharmaceutical Society to see to it that dispensing should be done by qualified pharmacists.

Mr. Jenkin described the subject raised by Mr. Skinner as a very minute part of a very much larger question.

Mr. Hines expressed the hope that before very long it would be possible to secure very definite information as to the conditions of public dispensing in every form which prevail in every city and county in the country, and as to whether it was carried on under the supervision of qualified pharmacists.

Mr. Campkin hoped the discussion would be productive of good. Members of the Council in addressing their constituents in various parts of the country asked their audiences to believe that pharmaceutical work was sacrosanct, but when they came to actualities the reverse was the case. They had been a long time in driving home to Government Departments the fact that none but qualified and experienced men should deal with and dispense potent poisons. The discussion showed that they had only partially succeeded. Notice had been given that

new National Insurance Act would soon engage attention. He had not seen the provisions, but he thought the new measure would mean the opening up of new bureaux and administrative departments and the pouring out of additional millions for the good of some. It was boasted that the Government put 100,000*l.* into the hands of pharmacists to deal with, but at the same time they appeared to lose sight of the fact that pharmacists were not recognised as they should be. His opinion was that they should keep hammering away till they did receive the recognition to which their qualifications entitled them.

Mr. Rymer Young thought that on broad and general principles it was the duty of the Council at all times to secure something like efficient official dispensing.

The President expressed the Council's indebtedness to Mr. Skinner for having brought the subject forward, and the hope that some steps would be taken to ensure his proposal being carried into effect.

The Secretary stated that, several months since, he had an interview with one of the medical officers of the Prisons Department. At that time there were certain difficulties which that gentleman did not think the Department would be immediately able to get over, but he personally was following up what was then in view.

The matter then dropped, and the Council deliberated in Committee.

North British Executive.

A meeting of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on February 25, Mr. James Jack in the chair. There were also present Messrs. Arthur, Cowie, Craig, W. L. Currie, Gilmour, Glass, Guthrie, Jack, Kitchin, McEwan, McMillan, McNab, McVitae, Meldrum, and Murray. Mr. A. J. Chater, assistant-secretary, was also present.

Training Grant Scheme.

The Executive, in committee, considered matters relating to the allocation of students, etc., the details of the procedure being explained by Mr. Chater, who was thanked on the motion of the chairman. It was remitted, with powers, to the Allocation Committee, consisting of the chairman and vice-chairman and Messrs. Forbes and Guthrie, to carry out the scheme on the understanding that no new courses of study other than those already sanctioned could begin earlier than October 1920.

Other Matters.

The Executive considered the resolution adopted by the Executive on January 28 as to the proposed making of working arrangements with the Scottish Pharmaceutical Federation. There was submitted a letter from the secretary intimating that the Council, on the report of the deputation, had resolved to take no further action in the matter pending the result of the test case to define the powers and functions of the Society which, it was explained, was now in process. The Executive agreed to delay further action meantime.

A letter was submitted from the Scottish Board of Health intimating the appointment of Mr. J. Rutherford Hill as a member of the Consultative Council established by the Scottish Board of Health (Consultative Councils) Order, 1919, to advise and assist the Board in connection with matters relating to medical and allied services.

It was reported that the question of the supply of urgent medicines out of business hours or during the night had recently come up as an acute problem. Local authorities were considering arrangements for any possible recurrence of influenza, and the question also came up under the new National Health Insurance Act Medical Benefit Regulations. It was thought desirable to have the matter considered and dealt with by pharmacists themselves so as to be ready for any eventualities. It was explained that in certain provincial towns no difficulty was experienced, because the chemists had made arrangements which were well known both to the medical profession and to the community, so that urgent medicines could be conveniently obtained at any hour. The general feeling was that pharmacists in the different localities should take the matter up and deal with it in the way best suited to their areas.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C 4."

Qualitative Analysis.

A Mixture of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, March 9, on which day the samples will be posted. Students' reports will be received up to Saturday, March 20. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the fifth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports.*

Coming Events.

Tuesday, March 9.

Amalgamated Society of Pharmacists, Drug and Chemical Workers (Glasgow Branch), Charing Cross Halls, Glasgow. Whist-drive and dance.

North London Pharmaceutical Association, Progressive Pharmacy Club, Arundel Hotel, Arundel Street, London, W.C., at 8.45 P.M. Mr. John Noble on "Dispensing Notes."

Chesterfield Pharmacists' Association. Mr. Twelves on "A Visit to the Battlefields of France and Belgium."

Wednesday, March 10.

Leeds Chemists' Association. Address by Mr. A. Mortimer (late hon. secretary of the Harrogate Chemists' Association).

Liverpool Chemists' Association, Royal Institution, Colquitt Street. Special trade meeting.

Leicester Pharmaceutical Assistants' Association, Granby Café, at 7.45 P.M. Lecture by Mr. A. E. Young, Ph.C., on "Poisons and Poisoners."

Manchester Pharmaceutical Association, Chess Club Room, 65 Market Street. Mr. G. A. Mallinson on "Pharmacy and the Ministry of Health."

Thursday, March 11.

Salford Pharmaceutical Association. Address by Mr. P. F. Rowsell.

Friday, March 12.

Harrogate Pharmaceutical Association. Annual dinner.

Manufacturers Agents Association.—The annual dinner will be held at the Pillar Hall, Cannon Street Hotel, on March 23.

Pharmacists' Services Club.—The first annual dinner will be held at the Restaurant Frascati, Oxford Street, London, W., on March 18. Reception by the President and Mrs. Atkins at 7 P.M. Dinner at 7.30 P.M. Tickets (10*s.* 6*d.* each) from Mr. F. W. March, 3 Heslop Road, Balham, London, S.W. 12. Uniform, morning or evening dress. Ladies invited.

Pharmaceutical Society's School of Pharmacy.—The annual dinner will be held at the Midland Hotel, St. Pancras, London, on March 16, at 7 P.M., Mr. W. J. U. Woolcock, M.P., in the chair. Tickets (10*s.* 6*d.* each) from the Hon. Secretaries (Messrs. J. W. Rickard and L. G. Matthews, 17 Bloomsbury Square), or Mr. Harry Martin, 22 Graham Street, City Road, London, N.

London Chemists' Golfing Society.—The annual dinner will be held in the Alexandra Hall, Frascati's Restaurant, London, W., on March 24, at 6.30 P.M. Tickets (12*s.* 6*d.* each) from Mr. G. F. Deeth, 40 Cleveland Park Avenue, Walthamstow, E. 17.

Aspirin in America.—The Bayer Company, which succeeded the sequestered German concern in the United States, has been cited to appear before the Federal Trade Commission for publishing advertisements implying that their aspirin is the only genuine article.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

War Emergency Laws (Continuance) Bill.

The further consideration of this Bill took place in the House of Commons on March 1, but not a word was said in regard to Regulation 40B, which deals with the supply, preparation, and use of cocaine and opium. The Bill was read a third time.

Penalisation of Circulars.

Sir Herbert Nield, on March 3, asked the Postmaster-General whether, in considering the proposed increase in the postage letter rate, he will, in view of the hardships which the great bulk of the nation are now having to endure, keep to the present rate on letters, and add any increase to the postal charges for trade and propaganda circulars and literature, which generally constitute a nuisance to the receivers, and the increased postage of which can well be paid by the senders.

The Postmaster-General replied: The suggestion will be borne in mind, but I must point out that advertising circulars, to which I understand he is referring, do not in the aggregate form a very large proportion of the correspondence passing through the post.

Potash Imports.

The following statement was issued in reply to a question by Sir Richard Cooper regarding the imports and prices paid for potash obtained from Germany:

Grades	Quantities covered by the Contract	Quantities received in the U.K. to date	Prices credited to German Government f.a.s. Rotterdam*
	Tons	Tons	£ s. d.
50 per cent. muriate of potash	20,000	8,288	16 5 1
90 to 95 per cent. muriate of potash ...	5,000	2,300	18 0 8
90 per cent. sulphate of potash	13,500	5,970	18 15 11
Potash manure salts (minimum content 30 per cent. potash as K_2O)	10,000	7,855	8 5 1
Total	48,500	24,413	—

* The amount to be delivered at Rotterdam is approximately two-thirds of the whole. The remainder is to be delivered f.o.b. Hamburg at prices 5s. per ton lower than those set out above.

National Health Insurance.

A Bill to amend the Acts relating to National Health Insurance was presented to the House of Commons on March 1 by the Minister of Health. According to "The Times," there are to be increased rates of benefit, and, as a natural corollary, higher rates of contribution. Sickness benefit is now 10s. a week for men and 7s. 6d. for women. The Government propose, in their Bill, to increase it to 15s. a week for men and 12s. for women. Maternity benefit, which is now a lump sum of 30s. on confinement, is to be increased to 40s. Disablement benefit, which begins after twenty-six weeks' sickness benefit has been received, is now fixed at 5s. a week. The Government propose to increase the rate to 7s. 6d. a week. An important clause will take sanatorium benefit bodily out of the National Health Insurance Acts. Generally speaking, the Government propose that the employer's contribution shall in future be 5d. a week, the male employed person's 5d., and the female employed person's 4d. The present rates of contribution are 7d. for men and 6d. for women, of which 3d. is paid by the employer and the remainder by the employed person. The State contribution will be, as at present, two-ninths of the combined contribution of the employer and the employed person in the case of a man, and one-fourth in the case of a woman. The general scope of medical benefit will not be changed by the Bill.

Why Prices Are High.

The President of the Board of Trade, on February 26, during the course of a reply on the cost of living, said: Speaking broadly, the rise in prices is the inevitable outward and visible sign of the national poverty resulting from the war. Examined in some detail, the price increase is, I think, undoubtedly due first and most important to the fall in the commodity value of gold; next, to the unavoidable paper inflation, which accounts for 20 or 25 per cent. of the increase; next, to scarcity values; next, to the diminished utilisation of capital resulting mainly from labour readjustments, for example, the extraordinarily diminished use of shipping; and, speaking broadly, comparatively slightly to unreasonable individual profit-making. In addition, there is some reflection both of heavy taxation and of the prospective high cost of plant maintenance and replacement in the price of products. As the main elements in the cure of the present undesirable position must be increased production and increased export, I am convinced that the most likely thing to delay recovery would be for one nation alone, and particularly this nation, to re-establish intricate, costly, and inevitably hampering Government control, and am altogether opposed to the idea of the Government undertaking to regulate in detail prices and profits at each stage of manufacture. In my opinion, the most hopeful line to follow is that which we have adopted, of trying to get each industry by agreement to regulate its own affairs, keeping the essential needs of the nation steadily before it and in consultation with the Government. That, with some improvements in the Profiteering Act, and its continuance for a further period, seeems to me to hold the most hopeful promise of our winning through to renewed national prosperity and its certain concomitant, lower prices.

British Cellulose Manufacturing Co., Ltd.

In reply to questions in the House of Commons on March 1, the Parliamentary Secretary to the Ministry of Munitions said: It is not correct to suggest that the debentures and other charges on the assets of the British Cellulose and Chemical Manufacturing Co., Ltd., amounting to 1,950,000*l.* are held by the Ministry of Munitions solely in its own right. Of this 1,950,000*l.* the Ministry holds the sum of 700,000*l.* as trustee for other parties; but, in addition, the Ministry holds a further charge of 200,000*l.* The Ministry holds therefore, on its own behalf, the sum of 1,450,000*l.*, and in lieu of this the Government has agreed to accept 1,450,000 7½ per cent. cumulative participating preference shares of 1*l.* each. At the same time the Government reserves the right to veto the creation of any debentures or other charges which might rank in priority to or *pari passu* with their shares. The Government has appointed two directors to sit on the board of this company, but those directors will not devote the whole of their time to the duties of the company.

In regard to this company the following letter has been issued to the Press, signed by Sir Jesse Boot, Mr. W. G. Asquith (Genatosan, Ltd.), Mr. D. Lloyd Howard (Howard & Sons, Ltd.), Mr. David A. Evans (Bath), and others: The British Cellulose and Chemical Manufacturing Co., with the aid of the taxpayers' money, is said to be producing and about to attempt to produce celluloid, kinema and photographic films, artificial silk, aspirin, and carbide of calcium—all these being produced at present by private enterprise and in fair supply in the country. We desire to protest against the action of the Government in allowing the taxpayers' money to be used in competing directly with the industries of the country, and to draw the attention of the whole commercial community to this flagrant breach of the rule which precludes Governments from engaging public funds or taking part in any commercial undertaking whatever—except such as is essential to the national safety or welfare and cannot be carried on without assistance. A further weighty objection is that the Government, by allowing itself to be advertised as taking shares in this speculative enterprise, enables the directors and promoters to obtain public subscriptions—and we invite the attention of the Press of the country to this important matter.

Kitchen Pharmacy Again.—"Have you tried anything for that cough?" said a chemist to a chance customer recently. "Yes," replied he; "but it hasn't done much good." Thereupon he handed over for inspection a recipe beginning: "Take a large Swedish turnip . . ."

Festivities.

Wellcome Philharmonic Society.

The Wellcome Philharmonic Society recently gave a much-appreciated orchestral concert at the Wellcome Club and Institute, Dartford, before a large audience. Dr. H. A. D. Jowett, works manager of Burroughs Wellcome & Co., conducted the orchestra of forty-three performers.

Eastbourne Pharmacists' Supper.

The Eastbourne Pharmacists' Association held a supper at the Gildridge Hotel on February 17, the first at which the assistants were present. An enjoyable evening was spent, Miss Dora Piper, Mr. J. T. Parsons, Mr. Harry Collins, and Miss McIntyre being responsible for the musical programme.

Southend-on-Sea Pharmacists' Dinner.

The annual dinner of the Southend-on-Sea Association of Pharmacists was held on February 25, and Mr. R. H. Shields presided over a large assembly. Mr. Heywood proposed "The Pharmaceutical Society," and Sir William Glyn-Jones replied. Mr. J. P. Gilmour (editor of the "Pharmaceutical Journal") proposed "The Association," and Mr. King responded. An excellent musical programme was provided.

London College of Pharmacy Social.

Another social event was held by the London College of Pharmacy on February 23, at the Clapham Hall, London, S.W., at which there was a large and enthusiastic gathering of students and friends. An excellent programme of music was rendered by the students, including a capital conjuring performance by Mr. Walton. The concert was followed by a dance. The arrangements were in the hands of Miss Wright and Messrs. Chadwick, Rose, and Rawlinson.

"P.D." Reunion Concert.

The "P.D." Cricket and Swimming Clubs attached to Parke, Davis & Co., held a reunion Bohemian concert on March 1, at the Pillar Hall, Cannon Street Hotel, London, E.C. The President of the Clubs, Mr. H. J. Fisk, was in the chair. About 300 members and their friends were present, and an enjoyable evening was spent. The chairman, in the course of a few remarks, reminded the audience that six years had elapsed since the clubs held their last meeting. The programme was an excellent one; special mention must be made of Miss Isabel Gray for her rendering of a Liszt Etude and other pianoforte solos. Other artists who contributed towards the success of the evening were: Misses Blakemore, Skinner, and Vaughan; Messrs. Pitt, Kemp, Vernon, and Harry Rogers. A vote of thanks to the chairman was accorded with musical honours.

Peterborough Chemists' Dinner.

The annual dinner of the Peterborough Association of Pharmacists was held on February 26. Mr. Frank Sturton, the President, was in the chair, and among those present were: Miss Borrowman (London), Messrs. C. Bayley, C. Barnett (Uppingham), W. T. Mellows (Town Clerk), W. A. C. Attwood (Hull), and A. G. Simmonds (John Bell, Hills & Lucas, Ltd., London). Mr. Bodger, in proposing "The Pharmaceutical Society," regretted that none of the august members of the Society were present. They were jolly good fellows individually, though that could not be said of them collectively. (Laughter.) But they had with them one from Town whom he hoped would soon be on the Council. He wished the Society the greatest success, and also hoped it would vastly improve. (Laughter.) Mr. C. Bayley responded. Called on to make a speech, Miss Borrowman said, with regard to her standing for the Council, she had twice refused nomination. She thought that one woman on the Council was quite enough for the present. Mr. M. Walker proposed "The City and Trade of Peterborough," and Mr. W. T. Mellows responded. Mr. Attwood (Hull) proposed "The Peterborough and District Chemists' Association," and Mr. Sturton replied. Mr. Calcutt proposed "The Visitors," and Mr. R. Cooper replied. The arrangements for the dinner were carried out by Mr. Bodger.

Stoke-on-Trent Chemists' Dinner.

The annual dinner of the North Staffs Chemists' Association was held at the Majestic Café, Stoke, on February 26, Mr. E. M. Mellor (Uttoxeter), President, in the chair. There was a good attendance. Among those present were: Mr. G. A. Mallinson (assistant secretary of the Pharmaceutical Society), Mr. H. O. Lloyd (President, Birmingham Pharmaceutical Association), Mr. Weston Poole, Ph.C., J.P. (chairman, Newcastle Education Committee), and Dr. Ludford Freeman (Director of Education for the borough of Stoke-on-Trent). After an enjoyable repast those present were entertained by a musical programme arranged by the Dinner Committee. Mr. Mallinson replied to the toast of "The Visitors," and appealed for greater confidence in the Society's executive. Mr. T. C. Cornwell, Ph.C. (Hanley), proposed "The Local Government Bodies," coupling therewith the name of Councillor J. Dale (Stoke). He congratulated Mr. Dale on his recent election to the borough council. Mr. Dale said that a pharmacist's education fitted him for public affairs, and thought that more pharmacists should take up municipal work. Proposing "The President," Mr. Lloyd (Birmingham) included a tribute to the work of the hon. secretary, Mr. T. Bentley (Stoke). He also commended the work of Sir William Glyn-Jones, Mr. Mallinson, and Mr. Chater at headquarters. Mr. Mellor suitably replied. Mr. Weston Poole, Ph.C., J.P. (Newcastle), said that, whether under the Ministry of Health or any other body, if the pharmacist is properly educated he will get any position there is available. He was very pleased to hear that Dr. Freeman had arranged for classes to be held in the district for pharmacy students. Dr. Ludford Freeman congratulated Mr. Kemp (Fenton) on the way he had handled the local war hospital contract during the war. He said his experience was that the authorities were very particular as to the colleges State-aided students applied for.

Glasgow Pharmacy Athletic Club.

The annual supper and presentation of prizes took place in Sloan's Restaurant, Argyle Arcade, on March 2. There was a large gathering, presided over by the President (Mr. George Mackay). The numerous trophies were on view, and the firms who presented them were represented. Supper being over, the toasts of "The King" and "The Pharmaceutical Society" were duly honoured on the call of the chairman, and a most enjoyable programme followed. Prizes were presented to the winners of last year. Mr. W. Greig, the donor, presented to Mr. Horace G. Gray the bowling trophy. Mr. David Moir (the runner-up) received a handsome travelling-bag. The "Cartwright" rose-bowl—the trophy in the Glasgow North *versus* South match—was won by the South, and was handed to Mr. Jas. Crombie, who replied. Three trophies in connection with the golf section could not be presented owing to the unfortunate illness of Mr. R. M. Jack, which had prevented the competitions being finished. The toast of "The Club" was given from the chair, coupled with the name of Mr. W. Wood Wilson, President of the Club. Mr. Wilson replied. "Donors of Prizes" was submitted by Mr. John Murchie (President of the Glasgow and West of Scotland Chemists' Association) and replied to by Mr. W. Greig. "Winners of Prizes" was proposed by the Chairman and replied to by Mr. James Dow, Secretary and Treasurer of the Club. "The Visitors" was proposed by Mr. John Bell and responded to by Mr. James Cochrane (President of the Edinburgh Pharmacy Athletic Club). Songs were contributed by Messrs. Gracie, J. Logan, Rankine, Watt, Thos. Cochrane, and Calder. Recitations were given by Messrs. D. G. McKenzie, Sloan, and D. McNicol, the quality of all the contributions being of a very high sort. At the close, the toast of "The Chairman" was proposed by Mr. Rennie (W. B. Cartwright, Ltd.). The toast was replied to by Mr. G. Mackay.

Society of Chemical Industry.

A joint meeting of the London Section of the Society of Chemical Industry and of the Faraday Society was held at Burlington House on March 1. After opening the meeting, Mr. Julian L. Baker vacated the chair in favour of Professor Porter. Dr. T. M. Lowry, F.R.S. (in collaboration with F. C. Hemmings), read a paper on *The Properties of Powders*. Dr. Lowry dealt particularly with the caking of powders, adducing as an example his investigations with ammonium nitrate. Caking is due to the presence of moisture, and is a process of recrystallisation. The small crystals, mere particles, under pressure dissolve in the traces of moisture present, and in recrystallising bring about the phenomenon of caking. Calcium chloride is efflorescent in Canada in winter. At ordinary temperature ammonium nitrate does not cake, and if allowed to dry without the application of warmth may be packed in casks without caking to any very great extent. On the other hand, if dried by a current of hot air and then packed, it cakes into a hard mass, which is even proof against sledge-hammers. The author also alluded to citric and tartaric acids as other examples of powders which are prone to cake. Calcium sulphate may be finely powdered and then dried; it absorbs moisture until a limit of 4.95 per cent. of water is reached, after which it shrinks. Sodium sulphide also cakes owing to hydration; in this case there are, however, two changes.

Owing to the late hour, Dr. Lowry was only able to give a brief *résumé* of his second paper (with S. Wilding), on *The Setting of Dental Cements*. Caking is utilised in dentistry in a different way from that seen in ordinary cements. He classified the formation of cements into four groups: first, the caking of anhydrous salts; then caking through hydration, as is the case on the addition of water to plaster of Paris; thirdly, the hydrolysis of a complex salt, as is the case with Portland cement, a process which cannot be applied to dental work; lastly, caking resulting from the formation of a new salt, which is the process actually in use. As the best type we have the cement produced by the interaction of magnesium oxide, magnesium chloride and water, resulting in the production of a magnesium oxychloride cement. Fletcher's cement is based on the interaction of zinc oxide and phosphoric acid, yielding a zinc phosphate. This has been modified, for instance, by adopting calcium silicate and an acid, which leads to the formation of a translucent cement, which is chemically a more complex body. The amalgams are another example of "cements," copper, palladium, and cadmium yielding with mercury a solid body. A new dental alloy is obtained by the action of mercury on a compound of silver and tin, Ag_3Sn, whereby the tin is set free, possibly in an amorphous state.

Reviews of Books.

Commercial Arbitrations. By Ernest J. Parry, B.Sc., F.I.C., F.C.S. $7\frac{1}{4}\times4\frac{5}{8}$. Pp. 102. 3*s*. 6*d*. (London: Sir Isaac Pitman & Sons.)

Mr. Ernest J. Parry is well known as an arbitrator and umpire in commercial disputes of a technical nature, and the purport of the present handbook is to provide in a small compass all the information necessary to guide arbitrators through what is frequently a difficult and doubtful business. The work is based on the Arbitration Act, 1889, and contains all the information which any business man acting as an arbitrator is likely to require. Forms relating to submissions, appointments, awards, the statement of cases, and other allied matters are given, and these are particularly free from unnecessary legal technicalities. It may conveniently be described as a pocket guide for the arbitrator—covering 102 pages—and in our opinion is a trustworthy and concise handbook, containing all the information which the average arbitrator is ever likely to require, and as such we confidently recommend it.

Institute of Chemistry.

The annual meeting of the Institute of Chemistry was held recently at 30 Russell Square, London, W.C. Sir Robert Robertson (Vice-President) occupied the chair in place of Sir Herbert Jackson (President), who was absent through illness. In moving the adoption of the report of Council, Sir Robert read the President's address, in which reference was made to the position of professional men under prevailing economic conditions. Most of the professions are attracting such a high proportion of the educated youth of the country that they are likely to be overcrowded. On the other hand, the Government and the industries of the country were becoming more and more alive to the necessity and the wisdom of making appointments for chemists more attractive to the best qualified. The Institute was ready to help them to secure suitable appointments and endeavours to encourage the employment of the competent. The situation was far more promising than at the time of the Armistice: over 530 chemists whose names had been on the appointments register had now no further need of this assistance. The Institute had been in communication with several of the Whitley Industrial Councils for industries on which chemistry had a bearing, and although no provision was made for the direct representation of chemists, several were acting as employers' representatives, and the Councils were prepared, where occasion arose, to turn to the Institute for assistance. The roll of the Institute was steadily increasing, numbering nearly 3,000 fellows and associates and over 500 registered students. The Council was revising the regulations for admission to membership. They had taken up the question of securing representation of chemistry in the Ministry of Health, with the satisfaction of seeing Sir William Tilden appointed a member of the Council on Medical and Allied Services, and Dr. J. F. Tocher appointed chemist to the Scottish Board of Health. Attention was being given to the continued production by British manufacturers of glass apparatus, chemical reagents, and other laboratory requirements. Jointly with the Institute of Metals, a Committee was engaged on questions affecting the status and organisation of chemists and metallurgists with the Navy, Army, and Air Force. Sir Herbert Jackson, F.R.S., was re-elected President.

Organising the Drug-trade.

Drug Union Meeting.

Recently a meeting of managers, assistants, and apprentices was addressed in the Y.M.C.A. buildings at Motherwell by Mr. James Irvine, Scottish organiser of the Amalgamated Society of Pharmacists, Drug and Chemical Workers. Mr. Irvine explained the aims and objects of this society, and it was agreed to form a Motherwell branch, with Mr. Rankine as *Chairman*, Mr. J. L. Whiteside *Secretary*, and Miss Murray *Treasurer*.

General Workers' Union.

Marked progress was reported at the annual meeting of the Tyne and Sunderland branch (pharmacists' and assistants' section) of the National Warehouse and General Workers' Union, held on March 3 at the Church Institute, Newcastle-on-Tyne. Mr. W. H. Burns, chemist and druggist, presided, and expressed his gratification at the increased interest displayed in the question of organisation. Mr. Swanton, the local organiser, stated that since the last monthly meeting over 100 new members had joined. The election of executive resulted as follows: *Chairman*, Mr. W. H. Burns, Gateshead; *Secretary*, Mr. W. J. Gibson, Newcastle; *Committee*, Miss E. Wilson, Messrs. W. Vallans, G. H. Cooper, Cyril Cooper, A. V. Melstrom, P. T. Kyles, and S. V. Rodgerson. Several new members were admitted.

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Birth.

Cooper.—At Sherwood Nursing Home, Chetwynd Road, Oxton, Birkenhead, on March 1, the wife of B. J. Cooper, chemist and druggist, The Argyle Pharmacy, of a daughter.

Marriage.

Talbot—McCarthy.—At St. Donard's Church, Bloomfield, on February 19, by the Rev. A. Moore, Charles A. Talbot, R.D., only son of Mr. Talbot, 24 Lothair Avenue, Belfast, to Maria, youngest daughter of Mr. McCarthy, 19 Lomond Avenue, Belfast.

Deaths.

Backhouse.—At Saint Raphael, Var, France, on February 23, after a brief illness, Mr. Headley Noah Backhouse, chemist and druggist, pharmacien de la première classe, aged seventy-nine. Until his retirement in 1910, Mr. Backhouse was well known, both in France and England, as the proprietor of Roberts & Co., Rue de la Paix, Paris, and New Bond Street, London, W. 1. A native of Yorkshire, he became associated with the famous pharmacy early in his career, and was its manager throughout the Franco-German war of 1870. During the horrors of the Commune he rendered considerable service in aid of the wounded. In 1872 he came to London in order to establish the branch at 76 New Bond Street, W., passing the Modified examination of the Pharmaceutical Society of Great Britain in the same year. Six years later he returned to Paris, took his French diploma, and entered into partnership with the late Mr. Shorthouse, on whose retirement in 1887 he purchased the remaining interest. The history of Roberts & Co. was fully outlined in The Chemist and Druggist, I., 1892, p. 154; but it may be mentioned that its founder, Dr. Roberts, commenced business in 1823 in the Place Vendôme. After his death, his widow carried on the pharmacy for some years, eventually disposing of it to Mr. Hartshorn, an Englishman who was succeeded by two nephews, Messrs. Hogg and Shorthouse. Mr. Hogg ultimately decided to start a separate business, and Mr. Shorthouse took into partnership Mr. W. Field. This partnership ended with the retirement of Mr. Field in 1878, when (as already mentioned) Mr. Backhouse became the junior partner. The removal to the Rue de la Paix took place four years later, and from that time onwards the pharmacy has been a landmark in the most fashionable shopping thoroughfare of the city. The present proprietors are Mr. H. Clement Chown and Mr. Arthur Jewell. Endowed with a fine presence and keen business instincts, Mr. Backhouse was an attractive personality familiar to more than one generation of visitors to Paris. The number of "special appointments" held by him was probably unique. He married a daughter of the late Mr. Fellows, the original proprietor of Fellows' Syrup.

Devitt.—At a nursing home, on February 28, Fanny, third daughter of the late Mr. Thomas Henry Devitt and twin sister of Mr. Andrew Devitt, J.P. (Lewis & Peat, Ltd.), 6 Mincing Lane, London, E.C. 3.

Fallowfield.—At 45 Brixton Hill, London, S.W. 2, on February 23, Mr. Jonathan Fallowfield, chemist and druggist, aged eighty-five. Mr. Fallowfield opened in business as a chemist in Lower Marsh, S.E., in 1855. He was one of the first to cater for the needs of amateur photographers of limited means, and eventually established the well-known business in photographic requisites at 146 Charing Cross Road, W.C., which was purchased in 1888 by Mr. F. W. Hindley.

Johnsen.—At his residence, Barnfield, Blyth Road, Bromley, Kent, on February 24, Mr. Wilhelm Martin Johnsen, a director and a founder of Johnsen & Jörgensen Flint Glass, Ltd., 26 and 27 Farringdon Street, London, E.C. 4, aged fifty-eight. Mr. Johnsen, who was born in Christiania, came to England in 1883. In the following year he was joined by Mr. Jörgensen, who had been associated with him since 1877. Their business as manufacturers and exporters of glass bottles and other glassware developed rapidly, and in 1898 they took over the firm of H. Poths & Co. A few years later the business was converted into a limited company, and it was removed in 1908 from Bury Court to Farringdon Street. Mr. Johnsen, whose geniality and integrity endeared him to a wide circle of friends, had not been in good health for some time past. He had, however, arranged to visit the South of France, and the end came somewhat suddenly. He was a trustee of the Norwegian Chamber of Commerce in London, a founder of the Den Norske Club, and a Knight of Saint Olav (First Class). He is survived by a widow and seven children. The funeral took place on February 26 at Sundridge Park Cemetery, the first part of the service being held at Bromley Parish Church.

Jones.—On February 23, Mr. Walter Robert Jones, chemist and druggist, aged seventy-eight. Mr. Jones, who was in business before August 1, 1868, had latterly been manager, for twenty-eight years, to the executors of the late Mr. Thomas Archer, Southam.

Laing.—At 12 Park Hall Road, East Finchley, London, N. 2, on March 1, Mr. John Stewart Laing, chemist and druggist, aged seventy-seven. Mr. Laing, who passed the Modified examination in 1869, was in business successively at Brockley, S.E., at Burnt Ash Road, Lee, S.E., and at Parkhurst Road, Holloway, N.

Llewellyn.—At Cheltenham Road, Bristol, on February 21, Mr. David Llewellyn, chemist and druggist, aged sixty-eight. Mr. Llewellyn served his apprenticeship with the late Mr. William Griffiths, Aberayron. He qualified in 1879, and soon afterwards commenced business in Bristol. For twenty years he was a deacon of Lower Castle Street Congregational Church.

McCartney.—At Adelaide Avenue, Coleraine, on February 27, Clara Constance, the dearly beloved second daughter of Mr. Robert F. McCartney, M.P.S.I.

Stoddart.—At Bull Bay, on February 24, suddenly, Mr. Thomas Stoddart, chemist and druggist. Mr. Stoddart, who qualified in 1894, was in business at 266 Great Western Street, Moss Side, Manchester, for many years. He retired a few months ago.

Woolley.—At his residence, Fairfield, Kersal, Manchester, on February 27, of pneumonia, Mr. Hermann Woolley, Ph.C., chairman of James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, aged seventy-three. Mr. Woolley was a younger brother of the late chairman of the company, Mr. G. S. Woolley, Ph.C., whose death occurred two years ago (*C. & D.*, 1918, p. 207). He passed the Major examination in 1867, after studying at Owens College, Manchester, and at the Bloomsbury Square School of Pharmacy; and in the same year he won the Pereira medal and medals in chemistry and pharmacy and in botany and materia medica. In the following year he joined his brother as a partner; four years later Mr. Harold Woolley, Ph.C., and Mr. C. A. Johnstone were taken into partnership, the title of the firm being changed to James Woolley, Sons & Co. The firm's conversion into a limited company in 1895 and the subsequent changes in the directorate are matters of history well known in the drug-trade. Mr. Hermann Woolley had been connected with his company as a director (and, prior to its incorporation, as a partner) for fifty-two years; latterly, however, he had ceased to have an active part in the business. In early life he took up mountaineering as a recreation; with it he combined photography, achieving some remarkable results in both spheres. He was at one time President of the Alpine Club, of which the late Mr. Michael Carteighe was a member. In 1913 he was elected treasurer of Manchester University. On the Saturday before his death he took a chill, and pneumonia supervened. The funeral took place on March 2 at Manchester Crematorium.

Personalities.

Sir A. E. Garrod has been appointed Regius Professor of Medicine at Oxford University in succession to the late Sir William Osler.

Mr. Thos. A. McGillivray (McGillivray Bros., manufacturers' agents, Toronto and Winnipeg) is now on a visit to London, and may be addressed c/o The Chemist and Druggist.

Mr. H. G. Grantham has been appointed to represent A. de St. Dalmas & Co., Ltd., Leicester, in Ireland and the West of Scotland. Mr. Grantham was formerly with Allen & Hanburys, Ltd.

Mr. W. Dawn Copley, Bulawayo, Rhodesia, South Africa, is at present in this country. Letters for him can be addressed c/o Tozer, Kemsley & Millbourne, Ltd., 84 Fenchurch Street, London, E.C. 3.

Mr. J. Laurie, chemist and druggist, 22 St. George's Avenue, Blackpool, was elected a trade group's representative on the executive committee of the Blackpool chamber of trade on February 25.

Mr. Sigismund Kutnow (S. Kutnow & Co., Ltd.) is, we regret to say, dangerously ill. He is one of the representatives of manufacturers on the Council of the Proprietary Articles Trade Association.

Mr. J. Milner, chemist and druggist, 209 Trafalgar Road, Greenwich, London, S.E. 10, has been elected vice-chairman of the Greenwich chamber of trade; and Mr. A. J. Hunt, chemist and druggist, 5 Woolwich Road, has been elected a member of the committee of the chamber.

Captain A. Pinnington, R.A.M.C., M.P.S., who has recently been demobilised, has joined the outdoor staff of Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool, which company he will represent in the Yorkshire area. Captain Pinnington, who served for almost five-and-a-half years, was mentioned in the "London Gazette" of August 28, 1919, for valuable services rendered in connection with the war.

Mr. William Bredt, formerly managing director of Widenmann, Broicher & Co., Ltd., has now re-established himself in business on his own account at 2 Tower Royal, London, E.C. 4, as a chemical and drug merchant. 'Phone number City 8482. Mr. Bredt holds a recent certificate from the German authorities to the effect that he has long ceased to be a German subject. He is well known in the chemical trade, and in his actions and speech was always thoroughly in sympathy with this country.

Business Changes.

J. R. Cave, Ltd., chemists, Southport, have opened a pharmacy at 190 Rufford Road, Crossens.

Mr. W. E. Jones, chemist and druggist, Hall Street, Rhos, Ruabon, has opened a branch in Market Street.

Mr. P. Bevill, chemist and druggist, has acquired the business of Mr. H. O. Wilson, chemist and druggist, 193 Kettering Road, Northampton.

Mr. G. G. Rule, chemist and druggist, has purchased the Broadgate Pharmacy, Botley, from Mr. T. C. M. Mulliner.

Mr. W. E. Morton, chemist and druggist, has purchased the business of A. T. Barton & Co., chemists, 72 and 74 Strafford Road, South Acton, London, W. 3, and has disposed of his interest in Morton's Cash Chemists, Ltd., 199 Portobello Road, W. 11.

The business of the Nottingham Perfumery Co., 27 Goose Gate, Nottingham, has been divided. That part relating to hairdressers' sundries will be carried on by Mr. Robert Langford at the same address and under the firm-name as hitherto. That part of the business which includes the manufacture and sale of "Cristaline" shaving-blocks, "Baffo," and styptic pencils will be carried on by Mr. T. Riley (the present proprietor) at 1, 3, and 5 Holland Street, Goose Gate, Nottingham, as the Cristaline Shaving Block Co.

Trade Notes.

Hessian Bags for packing purposes are offered by H. E. & I. Coller, 64 Cleveland Street, London, E. 1.

The Apollinaris Co., Ltd., 4 Stratford Place, Oxford Street, London, W. 1, intimate that supplies of Apenta are again available.

Sedobrol.—In the reference in this column last week (p. 88) to this preparation of the Hoffman-La Roche Chemical Works, Ltd., the name "sedobrol" was spelt wrongly.

Ess Viotta.—H. Bronnley & Co., Ltd., Acton Vale, London, W. 3, have just produced a richly-coloured show-card for Ess Viotto. Copies will be supplied to chemists on application.

Losall's Salt.—The retail price of Losall's salt has been increased to 1*s.*, 1*s.* 10*d.*, and 2*s.* 6*d.* The wholesale prices have been adjusted so as to yield a larger profit to the retailer.

Deterzine is a new stain-remover which is placed on the market by The Wm. Browning Co., Ltd., Albert Works, Park Street, London, N.W. 1. Particulars are given in the company's advertisement.

Price Alterations.—The Clayton Aniline Co., Ltd., 68½ Upper Thames Street, London, E.C. 4, intimate new prices for Dial tablets and Yohimbine tablets. Particulars are given in the company's advertisement.

Sanitas.—The new prices of "Sanitas" fluid are given in the advertisements in this issue of The "Sanitas" Co., Ltd., Locksley Street, Limehouse, London, E. 14. New price-labels for attaching to old stock will be sent on application.

Jubelettes.—The Anglo-American Pharmaceutical Co., Ltd., Croydon, referring to the recent change in the price of menthol and wintergreen cream jubelettes, ask us to state that the only alteration has been in the 3*s.* size, which has been advanced to 3*s.* 6*d.*

King's Food.—Geo. King & Co., Albion Food Mills, 1 and 2 Sycamore Street, London, E.C. 1, publish the revised prices of King's wheaten food and King's prepared patent cooked Scotch oatmeal. An announcement is also made in regard to the special packing of malted cooked food as a chemist's own proprietary.

Swansdown Face Powder.—Henry C. Quelch & Co., 4 and 5 Ludgate Square, London, E.C. 4, intimate that owing to the advance in the cost of all raw materials in the United States, it has been necessary to increase the wholesale price of Tetlow's "Swansdown" face powder to 10*s.* per doz., and the retail price to 1*s.* 3*d.* per box.

Information Department.

INFORMATION WANTED.

200/64. Dr. Maitland Hallam's capsules
202/66. Howard Walton's embrocation
201/27. Indiarubber teats, "B. R. & B., London" (lion on globe trade-mark)
201/91. Theonine (Berkley's patent)
201/4. "Lizoids" (laxative)
201/4. "Nechloneum" oil for eruptions
204/26. Lyon's sealing-wax
201/4. Hanning's peppermint perles
202/67. "Sanator" brand clinical thermometers (Beckton, Dickinson & Co.)
204/8. "Rabasa" bath salts (Radium Salt Co.)
203/7. "Zotos": actual makers
9/91. Ginger-beer "plant," known also as "Bees," where obtainable?

INFORMATION SUPPLIED.

Copper sulphate (Indian inquiry), 6/33
Etienne frères toilet preparations, 174/21
"Fructole," 171/45
Juphlox, 173/29
Kauffmann's bitters, 175/48
Novarsenol (Billon), 170/44 and 170/66
Osborne's epilepsy remedy, 162/67
Pyridine bases, 144/25
"Queen Pomade," 114/69
Rat varnish, 173/16
Scrubb's ammonia (French inquiry), 167/252
Tucker's atomizer (for asthma remedy), 175/69
Ung. calomel, 153/53
Wicker hampers, 146/33
Wilkinson's sarsaparilla, 186/53 and 190/41

Observations and Reflections.

By Xrayser II.

Six New Candidates

looks like a large order, but if we can ink local prejudices and personal preferences for the ake of a straight fight on a vital matter of principle t is easier to return a block of seven than a smaller umber. It requires only the solid vote of all those who desire to mark their just resentment of the Council's behaviour last year, and the thing is done. I see that Mr. Wolff appeals for special support for Mr. Hines on account of the special efforts that will be made by the reactionaries to defeat him, but unless I have quite misunderstood Mr. Hines's character and actions, he would rather stand or fall with the block than be returned at the head of the poll without the others. To scatter our votes would do him no good, and would defeat the object he, as much as any of us, has at heart. That object is twofold, the purging of the Council and the assertion of the right of those who pay the piper to choose the tune. We must let it be known that we will no longer be under the domination of a clique, but will be masters in our own house. We may presume that our opponents will set seven men of their own against our seven, and if they carry the day Mr. Hines will be defeated. That is admitted, and the loss would be a grievous one, but there is no real risk unless the great bulk of pharmacists have changed their minds since last year. I am glad to hear that the non-proprietors are choosing candidates of their own, but we must have no division of forces. An arrangement for a mutually acceptable list ought at once to be made by a joint committee of proprietors and non-proprietors, and the latter should be allowed, if they wish it, three representatives out of the seven. This may seem more than their numerical strength entitles them to, but it will give them only four of their own class on the Council, and we must be generous in our attempt to secure unity of effort. This is the most momentous fight in which we have ever engaged; with a list of as many names as there are vacancies, and no more, success is assured if only we act together.

Mr. A. B. Gilmour's Paper

on "Some Dispensing Problems," read at the recent meeting of the North British Branch, disposes, it may be hoped, once and for ever of the fiction (originating in Scotland) that Scottish prescribing and dispensing are greatly superior to ours who have the misfortune to live south of the Tweed. As regards prescribing, at any rate, there can be little doubt. I will not say that such prescriptions as Mr. Gilmour adduced have never been written by English doctors—I once had to deal with one that read thus: "R Pulv. sumbul. ʒij., aq. menth. pip. ℥ij. M. Sign. ℥j. ter die"—but such a batch of absurdities and other blunders as Mr. Gilmour presented has surely never been equalled elsewhere within the same area and time; and I find it difficult to believe that an equal number of English pharmacists would be guilty of such misreadings. Mr. Boa's remark that the paper gave "instances which not infrequently occurred in practice" confirms my conviction that no such inferiority as is alleged exists among us in the South, whether in prescribing or dispensing.

Mr. Harris Asks

why he should not put the whole weight of overhead expenses upon one department. Would he, if driving a team of four horses, put the whole expense of their upkeep upon one horse? It seems to me quite as reasonable a thing to do as the other. He also tells me he is prepared to substantiate all his figures. Will he, then, explain what is included in the "etc.," which he includes with breakages, estimated at one shilling per day? I have known several champion breakers in my time, but unless the "etc." accounts for very much the larger part of this expense the sum named is monstrously exaggerated. As for our already receiving 5*s*. per day in fees, Mr. Harris refutes himself. We might get this if we could dispense a steady average of twelve prescriptions per hour, but he admits it to be impossible to do so; five and a-half is his limit. Moreover, he demands 5*s*. in fees in addition to 33 per cent. on drugs and appliances, an addition I omitted to mention.

"Jay Mack" Told Us

the other day that his wages bill was 5¾ per cent. of his return. Clearly his return is a pretty large one or he underpays his staff. He may be a genius at organisation, but he will not persuade me that such assistance as a conscientious pharmacist requires can, as a general rule, be got on such terms. Let us suppose a return of 2,000*l*., which is probably a good deal above the average. At least one qualified assistant and a porter or errand lad of some kind would be necessary. Could they be got for 115*l*., or anything near that sum? "Jay Mack's" letter only shows how valueless are calculations or assertions that are not authenticated by figures.

Between Po-tash and Potash

no chemist would for a moment hesitate, and one wonders that any professor should go wrong. The word is a compound one, pot-ash, and was originally written in the plural, as pot-ashes, Dutch *pot-asschen*, German *pottasche*, Swedish *pottaska*. It was Joseph Black, the Scottish chemist, who in 1756 showed potash to be a compound substance, the separation from which of its carbonic acid left caustic potash. Sir Humphrey Davy proved the latter to be itself a compound containing the metal to which he gave the name potassium. Potash first appeared in our Pharmacopœias as *Cineres clavellati*, afterwards known as *Cineres Russici* (Russian pot-ashes) and *Kali impurum*, which in the London Pharmacopœia of 1809 was changed to *Potassa impura*.

Hss., in "Tidley's" Note on Oss.,

refers, I presume, to the Roman measure "hemina," in which case your correspondent must take this as equal to our wine-pint. But is he justified in so doing? A hemina was half a sextarius, which was the forty-eighth part of an amphora, which, again, held, some say, about nine gallons, others about seven and a-half. The sextarius is usually explained as equal to about a pint and a-half, the pint here being our wine-pint. According to this a hemina would be twelve ounces, but Littleton adds that "some account it [the sextarius] but eighteen or twenty ounces, and in accordance with this he gives the capacity of the hemina as nine ounces. Cotgrave says it contained seven and a-half of our ounces by weight, and its liquid capacity appears to have been about half a pint, modern measure. In writing Latin prescriptions it is, of course, necessary to use Latin terms for weights and measures, but this use is arbitrary, as Roman weights and measures did not correspond exactly with ours. *Hss* for eight ounces would be a particularly wide shot; but is it ever actually met with, or have I mistaken your correspondent's meaning?

The Founding at Montpellier

of a laboratory of manufacturing pharmacy is of peculiar interest. Montpellier has been famous in the history of medicine since 1289 or earlier. In that year its School of Medicine was founded by Arabian physicians, and it speedily developed into a rival of that at Paris. Here Rondelet taught for many years. One of his pupils founded its botanic garden (the oldest in France), and among his other pupils in botany were Lobel, Pena, Clusius (the translator of Dodoens, the English translation of his French one being the work known as Lyte's Herbal), Jean Bauhin, and d'Aléchamps. Lobel and Pena first became acquainted here, and here probably their "Adversaria" took its rise, Rondelet having bequeathed his botanical manuscripts to Lobel. Here certainly Bauhin's "Histoire universelle des Plantes" was begun, under the direction of d'Aléchamps. The "Adversaria," dedicated to Queen Elizabeth, was published in London in 1570, eight years before Lyte's book. In later times Tournefort was a student at Montpellier, and our Sydenham is believed to have completed his studies here after leaving Oxford. De Candolle wrote some of his chief works here.

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Editorial Articles.

The Use of Alcohol in Pharmacy.

It has been freely stated by the advocates of the prohibition of alcoholic beverages that so soon as this country realises the advantage that prohibition will give to America as a world's competitor, there will be here a large popular demand for prohibition. This country, as a rule, moves slowly, and we much doubt whether the change will be made in our time. Anyhow, it is useful to note that in the United States the most complicated problem that has confronted the Government has been to ensure that alcoholic medicaments are not employed to replace potable spirits. The use of alcohol as a solvent in pharmacy is historic, and follows the extensive employment in early times of wine as a menstruum for extracting the active constituents of drugs. When spirit became an article of commerce it replaced wine on account of the ease with which the alcoholic strength of a menstruum could be varied to suit the drug. The regulations just issued by the American Bureau of Internal Revenue follow the lines laid down in this country by the Board of Customs and Excise in regard to spirit rebate. Distilled spirits and wines may be used in the manufacture of those preparations compounded according to the United States Pharmacopœia, the National Formulary, and the formulas of the American Institute of Homœopathy which are unfit for use as beverages, and also in the manufacture of proprietary medicines that are incapable of being employed for beverage purposes. It is further stipulated that no more alcohol shall be used than is necessary for the purpose of extraction, solution or preservation, and each ounce of the liquid must contain a medicinal dose of the drug. It is forbidden to sell, unless specifically authorised, the following preparations: Elixir aromatic; elixir of liquorice; compound spirits of juniper; compound tincture of cardamom; compound tincture of lavender; blackberry cordial; elixir of anise; red aromatic elixir; elixir of bitter orange; compound elixir of cardamon; compound elixir of taraxacum; compound spirits of myrcia; aromatic tincture; tincture of caramel; compound wine of orange; wine of wild cherry; aromatic elixir of glycyrrhiza and bitter tincture. Wholesale and retail druggists may medicate alcohol in accordance with any one of the following formulas:

1. Bichloride of mercury 1 part, alcohol 2,000 parts.
2. Bichloride of mercury 0.8 gram., hydrochloric acid 60 c.c., alcohol 64 c.c., water 300 c.c.
3. Bichloride of mercury 1½ grains, hydrochloric acid 2 drachms, alcohol 4 ounces.
4. Formaldehyde 2 parts, glycerin 2 parts, alcohol 96 parts.
5. Carbolic acid 1 drachm, tannic acid 1 drachm, alcohol 1 pint, water 1 pint.
6. Alum ½ ounce, formaldehyde 2 drachms, camphor 1 ounce, alcohol and water, each 1 pint.
7. Liquor creosolis comp. (U.S.P.), 10 c.c., alcohol 1,000 c.c.

These denatured spirits, however, may only be sold to persons entitled to receive such as retail pharmacists and persons employing spirit for massage purposes, but retail pharmacists may sell quantities not exceeding a pint at a time provided that the container bears a poison label. The Commissioners of Internal Revenue permit the use of

alcohol in toilet preparations made from formulas passed for the purpose, but in any case if tartar emetic is present to the amount of ¼ grain per fluid ounce the toilet preparation will be regarded as unfit for use as a beverage. Bay rum must be denatured with tartar emetic before it can be sold. Directions are laid down for obtaining permits to use alcohol in the manufacture of recognised medicines, and also for the preparation of formulas which are not recognised officially. Prescriptions for alcoholic preparations, other than those permitted to be employed on account of their undoubted medicinal character, require to be written on special forms. Only physicians may use these forms, and the sales can only be made through pharmacists who have to conform with strict rules framed on those adopted in this country for cocaine prescriptions. Preparations classed as medicinal may be sold retail in good faith, but "Jamaica ginger," which we take it refers to a tincture or essence, may not be sold in larger quantities than two ounces at one time. These are some of the problems that pharmaceutical chemists have to face in the United States, and we expect that the medical men will have other difficulties in dealing with poisoning cases when antimonial toilet preparations get into common use. Even if not taken internally, there is considerable risk of poisoning when spirituous solutions of tartar emetic are regularly applied to the skin. Other suggested denaturants which were for various reasons rejected were phenolphthalein, salicylic acid, saccharin, zinc and cadmium chlorides, colocynth, saponin, and formaldehyde.

Commercial Progress of Japan.

From time to time we have dealt with the commercial progress of Japan, particularly during the war, but those who wish the latest information should consult the "Financial and Economic Annual of Japan," a copy of which has been sent to us by Mr. S. Mori, director of the Finance Bureau, Tokyo. It is common knowledge that the war brought about great changes in the fortunes of Japan, as prior thereto the country had been one of the poorest, her national capital amounting to only 44*l.* per head of the population, and the annual income to but 6*l.* per head of population. If these figures are compared with 424*l.* and 72*l.* respectively for the United States, the low economic degree prevailing in Japan in 1914 will be realised. The sudden dislocation of 1914 placed Japan in great difficulties, the recall of loans contracted in Europe being threatened, and the heavy decline in raw silk dealt a severe blow to her most important export trade. In 1915 there began to arrive large orders from Europe for war materials, while much neutral commerce formerly undertaken by the Allies or the Central Powers was diverted to her. High freight rates and rising prices followed. These conditions continued throughout the war, with the result of an ever-increasing trade balance and an increasing accumulation of specie, and Japan became in a position to undertake the issue of foreign loans, and also to partly redeem her foreign liabilities contracted before the war. The remarkable development of Japan's foreign trade is shown in the following table:

	Imports £	Exports £	+ or − Exports over Imports £
Average — five pre-war years	55,720,600	50,804,000	− 4,916,600
1918	170,849,100	200,962,900	+30,113 800

It will be seen that the exports from Japan have quadrupled, and for the last recorded year, 1919, there is a favourable trade balance of over thirty millions sterling, compared with an adverse one of almost five millions, the average of five pre-war years. The part played by the chemical and allied products industries in this development has also been remarkable, although it is not dealt with in the "Economic Annual," but the February issue of the "Journal of Industrial and Engineering Chemistry" (published by the American Chemical Society) devoted a ten-page article to the subject, written by Mr. U. P. Hopkins, of Washington, D.C. This article gives many new and interesting details, including several pages of statistics covering production, imports and exports, of which we give an abstract on pages 87-89. The article is, of course, written from and for the American manufacturers' point of view, and it gives him a definite idea of what the Japanese are actually accomplishing in the field of industrial chemistry, while a study of the import statistics shows what lines can be sold in Japan. Mr. Hopkins singles out a number of industries (to which the Japanese are paying special attention) for separate discussion. These include acids, camphor and menthol, dyes and dyeing materials, fertilisers, glass and glassware, matches, paints, paper, soap and glycerin, soda and bleaching powder, sulphur, etc. In regard to camphor and menthol it is stated that

More than half of the world's production of natural camphor comes from Formosa (now called "Taiwan" by the Japanese) and Japan proper. Wasteful methods of production and the greatly increased demands have recently made it advisable for the Japanese Government to regulate the exports by allocating supplies to the various consuming countries. The causes for the increased demand are well known, and the reasons assigned for the inability to meet the demands are scarcity of labour, the destruction of easily accessible trees, and the difficulties and dangers attending the exploitation of forests in the wilder sections of Formosa, where hostile savage tribes still make the camphor worker hesitate about sticking to his job even at higher wages than most other industries offer. Under Government auspices, the situation is being very carefully studied and constructive plans put into operation for improving the output. Much planting of new trees is being done and a careful survey of all existing sources is going forward. It is also hoped that all districts now menaced by savages will soon be brought under control. In the meantime all the camphor companies have united to form one big company and expect to compete to better advantage for labour in the future. The following figures give a general idea of the magnitude of the industry and the export trade (crude, oil, and refined camphor have been lumped together without reducing them to a common basis):

	1913 Lb.	1917 Lb.	1918 Lb.
Production ...	6,284,087	7,334,737	(*)
Exports ...	3,278,200	4,126,928	2,333,652

* Not obtainable.

The Government is now discouraging the exports of crude camphor, with the idea that the country can profitably do its own refining. The war served to revive interest in the manufacture of celluloid, which, for some reason or other, had been languishing, and unmanufactured celluloid and such celluloid products as combs, hair-pins, and toys are now exported in considerable quantities. The menthol trade, which has virtually been controlled by the Japanese, was hit rather hard by the war. Japanese exports reached their highest point in 1916, when sales abroad amounted to 511,168 lb., and since then have declined. There has been an increasing tendency on the part of the farmers to cut down the acreage devoted to mint in favour of grain and beans, which pay better. In two of the principal districts the cut in acreage has amounted to 50 per cent. during the last year.

Japan's position in regard to dyes "seems pretty well established," although the leading makers demand protection against outside competition. At the present time the United States has the major portion of the import trade in aniline dyes and logwood extract, and is doing a considerable business in both lines. The United States is likely to retain the bulk of the trade in dyes as Great Britain or Germany will not be able to participate largely

on a competitive basis for some time yet. Finally, it may be stated that the efforts of Japan have been mainly directed towards the development of a coal-tar industry, the production of alkalies, and the greatest possible utilisation of water-power in electro-chemical processes. The iodine, potash, medicinal, soap, and glycerin industries have also made good progress.

Price-list Adjustments.

The current issue of "The Script" calls attention to the great differences which are shown in the charges for ext. ergotæ liq. (which costs 2*s.* 8½*d.* per oz.) in three retail price-lists issued for use by chemists. These are (1) 1*s.* 6*d.* oz., (2) 3*s.* 7*d.*, (3) 5*s.* 6*d.*, which are so wide apart as to raise the question whether sufficient care is spent on the compilation of these important lists. Obviously some of the difference depends upon the rate of profit which is added to cost, but this does not justify prices which are below the wholesale price. Another point where mistakes are made is the failure to adjust the price to the specific gravity of a liquid, bought by weight and sold by volume. On this matter "The Script" states:

It is also very interesting to note that gravities in the Insurance tariff are against the chemist. The best method to adopt is to deduct the gravity from that of water, such gravities to begin from 0.800 onwards, since below that figure the medicaments are far too volatile to avoid considerable waste. Deduct the 0.800 from 1.000, and the difference will be pence from every 10*d.* of the cost:

1.000 – 0.800 = 2*d.* from 10*d.* cost
1.000 – 0.850 = 1.5 ,,
1.000 – 0.900 = 1.0 ,,
1.000 – 0.950 = 0.5 ,,

A similar method is applied over 1.000:

1.025	add	0.25	to 10*d.* cost
1.050	,,	0.5	,,
1.100	,,	1.0	,,
1.150	,,	1.5	,,
1.200	,,	2.0	,,
1.250	,,	2.5	,,
1.300	,,	3.0	,,
1.350	,,	3.5	,,
1.500	,,	5.0	,,

The adjustments are carried out in some lists, but the above table is useful in case of unquoted drugs employed in dispensing.

Nominating Council Candidates.

One of the minor officials of the Pharmaceutical Society stated this week that the number of persons admitted to the Register of Chemists and Druggists without examination will probably be only 150. There is virtue in the word "only," but no guarantee that even that large number of "fourteen-guinea chemists" will not be exceeded. We expect that the date for the nominations for the Council will have passed before the total is known. It is therefore all the more important that members of the Pharmaceutical Society should note that March 18 is the last day for receiving nominations. Both the nominee and the nominated signing the form must have paid their subscriptions for the year 1920. This is a matter which is sometimes overlooked, because in the ordinary way many members do not pay their subscriptions before the end of March. New blood is badly needed on the Council, and it is a fine opportunity for showing that the opinions of ordinary members cannot be flouted with impunity as they were over the unjust by-law question. Mr. Frank Hines, of York, who has proved his courage and lived up to his independent views, should be put at the head of the poll, and the other six retiring councillors should be replaced by new men of the right calibre to decide the important questions of the future.

Tinnevelly Senna.—The exports from India during 1918-19 amounted to 11,990 cwt. only, against 103,319 cwt. in 1916-17 and 39,566 cwt. in 1912-13. The unit of sale at Tuticorin, the chief outlet, is the candy of 500 lb., and that of shipment, bales of 2½ to 2¾ cwt. each.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Exeter.—The Devon Insurance Committee met on March 1, and received from the Pharmaceutical Service Sub-Committee the report of a complaint against a chemist as to the quality of certain extract of malt supplied to him. The insured person said the chemist made a statement that the doctor got all the profit, but this was denied by the chemist. The preparation complained of was a fair sample of extract of malt. It was recommended that the insured person be so informed, and that variation in the taste was probably due to the fact that, owing to the Government restrictions on the sale of malt, the manufacturers were unable always to obtain the same quality of material. It was recommended that the attention of the chemist be drawn to the advisability of taking care that there shall be no ground for such allegations in future.

London.—At the meeting of the Insurance Committee held on February 26 (*C. & D.*, February 28, p. 98), all the recommendations of the various sub-committees were adopted.

Portsmouth.—At a recent meeting of the Insurance Committee it was reported that during 1919 the Pricing Committee had dealt with 121,415 scripts, and the amount paid to chemists was 4,354*l.* 12*s.* 10*d.*, or an average cost per script of 8.61*d.* In 1918 the number of scripts was 127,223, at an average cost of 7.64*d.* The Pharmaceutical Committee submitted the following scheme of service under Article 9 of the Medical Benefit Regulations, 1920: Daily hours of attendance (8.30 A.M. to 8 P.M. except Wednesdays 8.30 A.M. to 1 P.M., Sundays and public holidays 7 P.M. to 8 P.M.). Any chemist on the panel will dispense prescriptions marked "Urgent" after business hours. The Pharmaceutical Committee also pointed out that local industrial conditions do not justify exceptionally late hours. It was resolved that the scheme be approved and submitted to the Minister of Health.

Sheffield.—A meeting of the Insurance Committee was held on March 3. The Panel Committee recommended that a deduction be made from the account of a practitioner of the difference in the cost of Angiers Emulsion and the cost of emulsion as set forth in the drug tariff. It was decided to deduct the amount of 1*s.* 6*d.* A further case of extravagant prescribing was reported on. The Committee decided to make a deduction of 10*l.* from the practitioner's account. The Minister of Health has asked for further particulars *re* the scheme for a pharmaceutical service. It was decided that the hours of service as submitted by the chemists would be adequate. Payment of 1,169*l.* 12*s.* to chemists for the month was passed, and 3*l.* 16*s.* 2*d.* to a doctor for the dispensing of medicines to invalid soldiers.

Southport.—At the monthly meeting of the Insurance Committee, held on February 24, the clerk reported that Mr. R. H. West, chemist and druggist, had been appointed a member of the Committee in place of Mr. F. Battersby, who had resigned. Mr. West was elected, on the motion of Mr. J. Righton (the other representative of the Chemists' Panel), as a member of the Medical Benefit and Sanatorium Sub-Committees. Letters had been received from Messrs. W. Prescott and J. Righton, regretting that they could not see their way to withdraw their resignations from the chemists' panel. Mr. Righton will continue as a member of the Committee. The minutes of the Medical Benefit Sub-Committee recorded that Messrs. J. R. Cave, Ltd., Nevill Street and Warrington Road, had opened premises at 190 Rufford Road, Crossens, Southport, and that address had been entered on the list of persons supplying drugs and appliances. The Finance Sub-Committee recommended payment of accounts for December 1919 and January 1920 amounting to 190*l.* 12*s.* 2*d.* to chemists. This was agreed to.

Japanese Production, Imports and Exports.

A Tabular Statement from Official Sources of the Business in Chemicals, Drugs, and Allied Produce during the years 1917 and 1918, compared with 1913; also the Production during 1917 compared with 1913 and 1909.

PRODUCTION OF CHEMICALS AND ALLIED PRODUCTS.

—	Quantity Produced		
	1909	1913	1917
Acetone, lb.	*	*	728,900
Acids:			
Acetic, lb.	*	*	6,997,760
Hydrochloric, lb.	3,989,409	7,748,555	24,951,527
Nitric, lb.	1,160,333	1,077,100	4,942,070
Sulphuric, lb.	150,251,336	413,613,139	741,039,167
Alum, lbs.	7,455,051	12,464,338	22,059,722
Ammon. sulphate, lb.†	1,847,349	1,818,658	24,122,051
Bleaching powder, lb.	14,453,362	33,114,094	47,528,123
Camphor:			
Crude, lb.	1,111,073	1,292,267	1,299,767
Oil, lb.	1,363,944	2,231,538	2,451,096
Refined, lb.	1,101,345	2,760,282	3,583,874
Iodine, lb.	76,773	152,566	484,133
Peppermint Oil:			
Crude, lb.	226,899	803,040	1,094,711
Menthol, lb.	147,921	258,060	561,843
Oil, lb.	142,182	272,006	564,964
Potash:			
Iodide, lb.	153,457	158,234	222,150
Chlorate, lb.	—	—	13,294,721
Chloride, lb.	1,044,011	4,451,967	19,466,656
Soda:			
Ash, lb.	2,892,835	4,755,402	7,597,771
Caustic, lb.	8,378,257	9,535,621	19,979,742
Sulphate, lb.	2,420,833	3,138,682	18,657,527
Sulphur, lb.	81,349,740	131,059,051	260,329,009
Waxes:			
Unbleached, lb.	18,967,887	12,935,334	15,816,499
Refined, lb.	9,900,716	10,263,120	11,168,734

* Not shown separately. † Year ended March 1918.

STATISTICS OF IMPORTS.

The import statistics given in the following table are based upon the annual returns of the Japanese Department of Finance. Only principal countries of origin are given.

JAPANESE IMPORTS OF CHEMICALS AND CHEMICAL PRODUCTS.

—	1913	1917	1918
CHEMICALS, DRUGS, ETC.			
Acids:			
Boric, lb.	1,185,000	788,875	1,019,538
United Kingdom	326,933	641,468	513,425
United States	2,189	147,396	506,211
Germany	711,471	—	—
Carbolic, lb.	978,598	4,731,134	2,950,867
United States	—	4,715,000	2,573,409
Germany	409,118	—	—
Citric, lb.	62,662	99,790	36,302
United Kingdom	32,061	83,303	17,102
Italy	—	7,840	2,688
United States	—	7,975	6,169
Germany	27,235	—	—
Oxalic, lb.	‡	51,292	366,505
United Kingdom	—	13,492	212,705
United States	—	22,450	153,800
Salicylic, lb.	320,868	90,377	516,292
United States	—	88,138	485,163
United Kingdom	2,241	2,239	31,129
Germany	290,294	—	—
Tartaric, lb.	159,380	341,170	269,086
United Kingdom	122,708	217,125	89,274
France	1,120	64,797	72,319
Italy	4,409	44,063	84,669
United States	—	15,185	2,239
Germany	25,201	—	—
Alum, lb.	‡	572,950	110,179
China	—	572,300	71,795
Ammon. carb., lb.	433,757	982,073	299,854
United Kingdom	416,532	833,022	297,299
United States	—	149,051	2,595
Germany	11,605	—	—
Ammon. chlor., lb.	1,090,218	904,430	224,244
United Kingdom	646,198	887,562	217,963
United States	251	13,935	5,581
Germany	448,748	2,933	—
Bismuth subnit., lb.	31,463	6,868	1,599
United States	1,000	6,668	1,149
Germany	17,245	—	—

‡ Not shown separately.

JAPANESE IMPORTS OF CHEMICALS AND CHEMICAL PRODUCTS (*continued*).

—	1913	1917	
CHEMICALS, DRUGS, ETC. (*continued*)			
Calcium acetate, lb.	9,033,606	255,326	1,368,479
United States	9,033,578	255,326	1,360,688
Glycerin, lb.	1,892,785	887,997	600,464
United Kingdom	1,251,486	724,243	45,113
United States	—	133,387	518,132
Germany	588,273	—	—
Phosphorus:			
Red, lb.	455,630	260,644	129,839
United Kingdom	76,767	259,905	660
Germany	121,632	—	—
Yellow, lb.	377,682	47,589	—
United Kingdom	254,504	31,979	—
United States	—	15,610	—
Germany	105,201	—	—
Potash:			
Bichromate, lb.	591,945	584,688	221,615
United States	408,640	584,688	221,615
Germany	10,930	—	—
Bromide, lb.	92,701	3,410	335
United States	3,926	3,300	333
Germany	86,515	—	—
Chlorate, lb.	7,527,720	235,244	67,201
France	2,436,664	211,741	67,210
United States	—	23,503	—
Germany	3,071,533	—	—
Cyanide, lb.	1,100,671	652,165	607,810
United Kingdom	553,525	651,717	605,958
Germany	544,391	—	—
Nitrate, lb.	1,291,351	174,424	1,680,022
China	—	149,185	1,131,434
Germany	1,280,215	—	—
Soda:			
Ash, lb.	68,521,861	98,060,756	124,159,672
United States	8,979	54,382,470	76,709,247
United Kingdom	68,510,677	40,880,290	46,983,738
Germany	2,205	—	—
Bicarbonate, lb.	9,910,039	6,881,352	7,331,829
United Kingdom	9,882,581	6,548,997	3,627,901
United States	112	220,405	3,662,187
Germany	27,346	—	—
Borate, lb.	1,401,041	3,373,388	2,348,931
United Kingdom	856,137	3,156,684	2,083,045
United States	148,640	216,704	265,887
Germany	396,274	—	—
Caustic, crude, lb.	26,810,066	47,877,323	16,350,847
United States	361,495	47,255,852	15,024,902
United Kingdom	26,412,689	603,804	789,976
Germany	32,501	—	—
Cyanide, lb.	—	535,820	1,576,669
United Kingdom	—	524,734	1,553,261
United States	—	11,086	23,308
Germany	—	—	—
Peroxide, lb.	392,083	55,345	21,826
United Kingdom	83,442	30,213	7,275
Sweden	—	17,334	—
Italy	—	7,275	14,551
Germany	117,259	—	—
Drugs, medicines, etc.:			
Alcoholic medicinal preparations, gal.	6,927	9,227	11,697
United Kingdom	4,774	7,536	9,872
United States	1,461	1,619	1,611
Germany	556	—	—
Acetanilide	88,747	105,151	204,613
United States	—	94,960	201,009
Germany	46,755	—	—
Antipyrin, oz.	731,694	54,359	94,259
France	75,818	29,879	33,903
Switzerland	25,832	13,141	36,748
United Kingdom	—	9,732	23,608
Germany	630,044	—	—
Aromatic chemicals	$24,990	$26,454	$112,861
United Kingdom	5,383	16,397	48,389
United States	—	6,648	53,412
Cocaine, oz.	52,228	90,019	45,634
United Kingdom	1,763	30,426	17,356
United States	—	30,404	15,228
France	—	14,473	6,298
Holland	2,500	13,746	1,095
Germany	47,965	—	—
Formalin, lb.	946,562	571,865	730,840
United States	—	534,957	724,943
Germany	535,976	—	—
Guaiacol carbonate, lb.	27,879	258	200
Switzerland	3,737	221	—
Germany	12,927	—	—
Milk sugar, lb.	427,003	65,743	499,816
United States	—	24,530	499,373

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Japanese Imports of Chemicals and Chemical Products (*continued*).

—	1913	1917	1918
Chemicals, Drugs, etc. (*concluded*)			
United Kingdom	51,551	22,400	—
Kwangtung Province	—	12,998	—
Morphine, oz.	91,128	600,229	165,087
United Kingdom	73,303	598,749	119,722
Germany...	17,327	—	—
Perfumed waters, lb.	87,218	76,046	62,147
France	55,874	49,104	25,985
United Kingdom	10,668	24,630	29,430
Germany...	8,047	—	—
Quinine, oz.	253,829	513,763	452,799
Dutch East Indies	180,819	503,683	415,523
Santonin, lb.	4,492	1,697	3,665
Russia	—	1,157	3,556
United States	—	463	110
United Kingdom	1,282	77	—
All other chemicals, drugs, etc. ...	$1,665,673	$2,441,177	$4,855,881
United States	97,110	1,296,113	2,306,812
United Kingdom	172,409	353,466	397,925
China	97,933	249,762	485,885
British India	22,393	83,420	277,318
France	35,847	91,197	51,688
Peru	—	67,393	331,127
Germany...	1,049,996	11,018	3,845
All other preparations or compds. of chemicals, drugs, etc. ...	$173,248	$245,336	$268,743
United Kingdom	29,344	39,329	24,682
France	13,320	19,509	4,517
Switzerland	2,334	19,195	9,190
Germany...	68,901	1,635	—
United States	57,916	160,881	228,287
Dyes, Paints, etc.			
Aniline dyes, lb.	9,738,863	832,947	2,538,725
United States	—	337,115	1,841,808
Germany...	8,585,797	279,987	462,445
Switzerland	652,861	160,898	165,782
France	269,749	21,876	14,398
Holland	23,035	14,201	—
United Kingdom	178,373	4,462	31,442
Other coal-tar dyes, lb.	*	13,978	29,840
Germany...	*	13,978	10,599
Aniline salts, lb.	648,730	1	175,713
United States	—	1	175,713
United Kingdom	138,338	—	—
Germany...	360,644	—	—
Indigo:			
Natural, lb.	27,432	85,664	1,444,856
British India	25,450	56,162	1,310,025
Dutch East Indies	1,214	29,502	122,632
Artificial, lb.	2,186,513	1,910	143
Germany	1,974,432	1,870	69
Logwood extract, lb.	955,992	1,649,205	3,588,288
United States	4,508	1,303,737	3,483,008
France...	878,149	283,507	61,571
United Kingdom	—	61,865	42,757
Germany	73,223	—	—
Oxide of cobalt, lb.	40,169	116,347	103,598
United Kingdom	39,284	108,984	10,601
United States	884	7,363	92,998
Saffron, lb.	5,025	3,329	3,758
France...	3,148	1,720	3,024
Spain	1,190	1,609	—
Germany	485	—	—
Oils, Fats, Waxes, and Manufactures thereof:			
Oil-bearing materials:			
Soy beans, lb.	235,521,849	185,616,327	258,322,752
Peanuts, lb.	—	3,718,040	14,060,680
Sesame, lb.	13,129,316	12,085,122	25,795,264
Perila ocimoide, lb.	9,883,760	17,604,130	17,055,967
Rape and mustard, lb. ...	35,573,334	78,439,933	127,505,661
Linseed, lb.	—	8,269,715	14,528,942
Hempseed, lb.	—	17,110,470	7,131,334
Cottonseed, lb.	26,540,382	47,405,818	32,696,701
Copra, lb.	5,639,797	89,678,340	165,184,726
Vegetable oils:			
Castor oil, lb.	970,148	730,040	1,044,503
China	426,159	405,706	758,860
Kwangtung Province ...	185,338	77,710	11,158
United States	—	5,740	16,088
Germany	37,765	—	—
Coconut oil, lb.	1,128,489	2,003,237	681,319
Straits Settlements	107,978	1,372,548	113,158
Linseed oil, lb.	582,257	147,103	438,426
United Kingdom	509,553	72,572	7,822
China	—	59,730	327,929
United States	11,320	13,045	231
Germany	5,122	—	—
Olive oil, lb.	197,036	118,070	140,595
France...	121,436	47,944	20,929
Italy	30,489	35,563	1,746
United States	3,167	14,610	37,515
Spain	2,493	8,820	17,637
Germany	35,229	—	—
Soy-bean oil, lb.	6,249,522	1,024,240	2,633,915
Turpentine oil, gals.	38,731	51,690	88,047
United States	38,100	51,642	88,026
Vegetable tallow, lb.	—	20,915	5,483

* Not entered.

Japanese Imports of Chemicals and Chemical Products (*continued*).

—	1913	1917	1918
Oils, Fats, Waxes, and Manufactures thereof (*cont.*)			
Soap:			
Perfumed, lb.	377,576	103,940	1,235,548
United States	111,776	53,466	57,842
United Kingdom	78,377	39,577	59,635
Germany	113,400	3	—
Other, lb.	1,380,355	160,885	14,697
France...	1,110,041	92,749	3,295
United Kingdom	115,014	45,743	37,039
United States	60,967	14,752	9,998
Oils, fats and waxes, perfumed, lb.	58,576	42,064	20,631
France	45,809	32,524	8,792
United Kingdom	5,784	7,099	3,732
United States	831	2,180	7,659
Germany...	6,023	—	—
Volatile oils, lb.	285,956	426,310	673,832
United Kingdom	64,177	113,474	179,315
China	39,338	77,440	73,623
Dutch East Indies	106	67,493	170,783
France	34,905	52,828	42,748
British India	12,433	48,487	90,642
United States	108	35,220	93,923
Germany...	120,735	—	—
All other oils, fats, and waxes, and manufactures thereof ...	$113,569	$221,810	$471,824
Gums, Resins, etc.:			
Shellac, lb.	452,607	1,172,053	2,236,891
British India	450,964	1,168,470	2,202,859
Other gums and resins, lb. ...	†	1,068,210	1,952,086
Straits Settlements	—	440,780	542,719
Dutch East Indies	—	236,162	702,301
China	—	169,978	74,181
Gum arabic, lb.	615,273	359,575	309,924
British India	55,443	187,729	247,819
United Kingdom	77,393	82,095	—
Germany...	144,463	—	—
Miscellaneous Manufactures:			
Photographic films, sensitised, lb.	36,768	65,641	71,805
United States	21,949	53,556	59,599
United Kingdom	9,414	12,088	12,082

Statistics of Exports.

The following table of exports has been compiled from the annual returns of the Japanese Department of Finance:

Japanese Exports of Chemicals and Chemical Products.

—	1913	1917	1918
Chemicals, Drugs, etc.:			
Acids:			
Acetic, lb.	†	5,632,007	4,663,924
Straits Settlements	—	3,759,263	2,342,510
Dutch East Indies	—	1,120,300	1,282,508
British India	—	617,271	803,672
Sulphuric, lb.	3,368,497	9,192,039	7,754,090
Straits Settlements	208,381	3,077,489	1,051,865
China	1,482,166	1,620,324	1,266,329
Egypt	—	1,136,716	2,463,983
Asiatic Russia	315,545	1,114,249	2,534
Hongkong	409,813	773,395	1,238,424
Bleaching powder, lb.	2,235,591	14,261,615	10,904,580
British India	132	8,384,777	6,199,441
China	1,828,436	3,926,623	2,805,811
Calcium carbide, lb.	†	7,198,619	28,616,157
Australia...	—	3,855,964	10,334,972
China	—	737,185	1,179,797
Hongkong	—	641,717	2,072,626
Straits Settlements	—	540,803	2,743,357
British India	—	523,327	6,558,946
Camphor, lb.	3,278,200	4,126,928	2,333,652
United States	659,647	1,975,073	787,873
British India	1,164,835	1,431,885	477,758
Coal-tar and pitch, lb.	†	27,079,515	19,394,700
French Indo-China	—	18,356,922	7,612,252
Hongkong	—	1,408,154	7,159,709
Copper sulphate, lb.	†	3,726,754	3,454,618
Australia...	—	1,678,503	1,913,053
British India	—	711,978	316,000
Dutch East Indies	—	402,068	491,692
China	—	400,361	144,900
Dried plants for insecticides, lb. ...	346,458	3,304,297	3,197,320
United States	30,492	2,370,259	2,700,376
United Kingdom	183,465	612,469	412,073
Canada	—	298,571	23,600
Ginseng, lb.	331,039	350,383	277,687
China	178,669	185,944	194,117
Hongkong	151,325	163,913	83,021
Insect powder, lb.	209,340	666,576	808,594
China	76,473	180,143	205,046
Australia...	143	117,769	162,626
Kwangtung Province	27,818	80,435	55,965
Asiatic Russia	9,665	72,710	15,062

† Not shown separately.

Japanese Exports of Chemicals and Chemical Products (*continued*)

—	1913	1917	1918
Chemicals, Drugs, etc. (*continued*)			
Insect powder (*cont.*)			
United States	15,902	47,776	119,991
Argentina	—	36,613	25,368
United Kingdom	—	20,618	63,886
Iodine, lb.	26,733	62,660	81,204
United States	—	26,758	23,629
United Kingdom	11,393	15,042	29,843
Menthol:			
Cane, doz.	100,681	195,137	269,052
Dutch East Indies	26,545	66,858	76,277
China	50,523	57,891	103,129
Hongkong	14,232	30,540	43,561
Straits Settlements	2,487	19,028	12,781
Crystals, lb.	308,089	332,293	313,908
United States	54,843	196,503	99,687
United Kingdom	83,918	83,163	155,954
Potash:			
Chlorate, lb.	*	3,415,669	4,772,690
United States	—	1,617,233	228,485
China	—	913,718	1,301,727
Brazil	—	—	1,228,860
Iodide, lb.	71,727	218,790	244,643
United Kingdom	63,474	86,930	36,559
United States	—	38,294	72,303
Asiatic Russia	—	33,373	13,786
British India	417	14,420	32,399
Soda, caustic, lb.	*	881,031	1,455,815
British India	—	655,917	11,487
China	—	145,621	195,747
Dutch East Indies	—	2,210	810,775
Sulphur, lb.	119,613,792	188,375,054	119,263,386
Australia	53,782,290	109,692,364	79,247,950
British India	2,343,702	23,697,560	19,045,363
Cape Colony and Natal	—	15,388,857	5,072,319
Dutch East Indies	642,681	14,766,798	5,172,602
Asiatic Russia	32,506	8,144,242	4,876
New Zealand	—	5,523,743	1,729,720
Toilet powders	$58,727	$141,614	$176,641
China	36,477	79,207	82,311
Other prepared perfumes	$105,628	$139,064	$218,488
China	59,279	46,955	63,123
Tooth powder, paste	$119,286	$212,857	$330,176
China	82,155	132,165	182,719
Prepared medicines	$828,121	$799,723	$953,828
China	528,516	406,528	487,783
Kwangtung Province	64,848	97,948	106,305
British India	16,741	70,385	92,612
All other drugs, chemicals and medicines	$413,177	$4,596,798	$6,173,595
United States	5,448	1,098,776	976,429
Dutch East Indies	8,329	999,230	777,445
China	183,116	776,769	1,289,023
Asiatic Russia	5,730	457,413	233,917
British India	19,755	391 889	353,632
Germany	6,620	—	—
Argentina	508	46	456,162
United Kingdom	13,940	135,606	442,033
Dyes, Paints, Etc.:			
Paints, lb.	474,708	2,420,850	15,034,236
Red lead, lb.	*	1,895,086	4,596,276
British India	—	1,391,191	3,059,014
All other dyes, pigments, coatings and filling matters	$150,907	$712,706	1,752,643
Inks, lb.	509,019	1,088,601	1,392,150
Oils, Fats, Waxes, and Manufactures thereof:			
Oil-bearing materials:			
Linseed, lb.	*	11,279,488	4,322,980
Peanuts, lb.	13,070,157	18,627,100	18,705,620
Rape and mustard, lb.	*	13,253,105	2,721,652
Soybeans, lb.	*	3,379,985	1,594,854
Vegetable oils:			
Camphor oil, lb.	2,594,590	2,266,742	1,813,344
United States	1,623,410	1,687,055	1,048,932
Cocoanut oil, lb.	*	34,639,635	53,522,777
United States	—	24,742,022	48,854,624
United Kingdom	—	2,914,270	75
Asiatic Russia	—	2,878,511	1,308,784
Canada	—	1,518,996	1,681,681
Colza oil, lb.	11,664,630	19,521,925	26,620,762
United States	314,310	12,279,266	22,585,710
United Kingdom	5,711,063	4,748,987	181,133
Cottonseed oil, lb.	*	1,599,957	2,427,019
United States	—	1,353,868	1,179,792
Peppermint oil, lb.	373,173	343,548	283,912
United Kingdom	118,663	185,585	193,969
United States	11,210	55,840	8,302
France	58,490	41,601	1,377
Hongkong	45,043	29,758	23,963
Soybean oil, lb.	1,879,682	7,307,968	6,518,898
United States	658,382	6,946,348	5,085,155
Vegetable wax, lb.	6,261,004	6,582,226	11,804,465
United Kingdom	972,884	2,690,668	6,050,266
United States	1,244,983	2,320,502	3,782,461
France	1,004,590	523,087	1,167,228
British India	271,490	317,333	282,487

* Not shown separately.

Japanese Exports of Chemicals and Chemical Products (*continued*)

—	1913	1917	1918
Oils, Fats, Waxes, and Manufactures thereof (*cont.*):			
Soap:			
Toilet, doz.	2,342,606	5,040,409	4,732,659
Hongkong	92,125	735,491	397,461
Kwangtung Province	228,164	414,351	524,585
British India	72,198	281,804	183,059
China	1,930,129	3,365,235	3,074,647
Dutch East Indies	1,469	162,855	374,886
United States	22	11,116	1,008
Washing, lb.	261,010	576,558	1,913,943
Toilet water and hair-oil	$258,474	$496,036	$579,060
Dutch East Indies	49,263	148,116	187,220
China	70,002	88,319	119,523
Straits Settlements	41,908	54,606	72,938
All other oils, fats, and waxes, and manufactures thereof	$179,583	$1,116,532	$2,297,789
United States	7,892	363,906	441,808
China	27,673	248,102	392,837
Kwangtung Province	70,374	118,943	203,570
United Kingdom	11,014	111,876	178,463
Asiatic Russia	635	95,207	24,265
Dutch East Indies	114	98,416	366,205
Miscellaneous:			
Celluloid, lb.	*	956,514	1,339,445
United Kingdom	—	855,890	352,864
France	—	58,583	915,610

* Not shown separately.

The statistics of production given in the above table have been compiled from official reports of the Japanese Department of Agriculture and Commerce. We have omitted fertilisers, some oils, matches, ores, etc., but the table will give a fairly definite idea of Japanese overseas trade.

Sesame Oil.

The late war has added largely to the number of experiments made in India with a view to making articles produced there more useful to the world at large either in the way of medicine or for other economic uses. One of the most interesting of these was undertaken by two Indian chemists in the Punjab University with a view of making til seed or sesame oil more useful in the preparation of edible fats. This oil possesses many valuable qualities, and is largely used by millions of Indians for cooking. Before the war it was exported to France and Italy, and much of the so-called olive and Lucca oil sold in those countries is composed of it. The colour and odour of the oil are sometimes objected to by those who use it at first, and in Calcutta the higher classes who have from their childhood been accustomed to use ghi for cooking would never substitute til-seed oil for it. This is a prejudice which, however, exists only among a very few, and many Europeans who have tried it appreciate it, and have adopted the cheaper substitute. The fact that it is largely used in France and Italy in the making of the "salad oil" for which these countries have a world-wide reputation, shows conclusively that there is no unsurmountable objection either to the colour or odour of sesame oil. The cultivation of the plant is largely extending in India, where it can be grown successfully and economically in various kinds of soil, and in climates where the rainfall differs considerably. After the grains, which form the food of India's millions, it would be difficult to mention any single article other than sesamum or til seed more advantageous to the country on which increased attention might more worthily be bestowed, and this, whether we look upon it as a most valuable article of export for which there will always be an increasing demand in Europe, or as a nutritious food for the people, supplying them with what next to grain they most require for healthy sustenance, and at smaller cost than anything else of the same properties and nature.

A Coincidence.—Both The Chemist and Druggist and the "American Journal of Pharmacy" published their ninety-first volume in 1919.

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Associations' Winter Session.

Aberdeen.—An interesting address on *The Outlook for Pharmacy at the Present Day* was given recently by Mr. E. Gower Bryant, Ph.C., F.C.S., at the first meeting of the Gordon's College Pharmacy Club. Mr. Rattray, of the pharmacy staff, occupied the chair, and there was a large attendance of members. After a brief outline of the history and evolution of chemistry, the lecturer proceeded to discuss the training of the pharmacist. In the interests of the profession he urged that a much higher educational standard is necessary. Possible business side-lines were also dealt with, special attention being directed to bacteriology and analysis. A debate followed on the trade-union question.

Edinburgh.—The Edinburgh Chemists', Assistants', and Apprentices' Association held a meeting at 36 York Place, Edinburgh, on February 25, Mr. H. Stout, Ph.C., President, in the chair. The first communication submitted was on *Catalysis*, by Mr. James W. Teesdale. Mr. Teesdale pointed out that in 1794 Fulhame drew attention to the fact that traces of water were necessary in the oxidation of carbon monoxide and in the reduction of certain metals. He proceeded to outline the history of the reaction. Ostwald defines catalysts as "bodies which change the velocity of a chemical reaction without modifying the energy factors of the reaction." The catalyst has the same chemical composition at the end of the process as it had at the start, though its physical condition may be altered. There is generally a certain amount of loss, and the life of a catalyst may be cut short by impurities causing "poisoning," or by side reactions producing substances which combine with the catalyst. Examples of negative catalysis were given, and it was pointed out that the Welsbach lamp is a familiar illustration of the action of a catalyst. Mr. Teesdale then proceeded to give an interesting and detailed account of the use of positive catalysis in industries, and included in his description the manufacture of sulphuric acid; Deacon's process for making chlorine; nitric acid from ammonia; ammonia by Haber's process from hydrogen and nitrogen; formaldehyde from methyl alcohol; oxalic acid from sugar and nitric acid (vanadic oxide acting as oxygen-carrier); the conversion of liquid oils into solid fats by catalytic hydrogen and isoprene from acetylene and propylene. Enzymes were then described as the catalytic agents of plants and animals, and an erudite explanation of their power was given. Mention was also made of the action of rennin on milk. There can be no doubt that catalysts alter chemical resistance, as this is the only way of accounting for a change in reaction velocity. Alteration in chemical resistance may be brought about either by the formation of intermediate compounds or by means of surface absorption. The next paper was on *Women in Commerce*, by Mr. James Robertson. Mr. Robertson said he had read the report of the Women's Employment Committee, which dealt with reconstruction after the war. He desired to consider the matter in relation to the welfare of the whole nation, and not merely from the economic standpoint. He contrasted the old-time position of women with that of the present day, and then proceeded to detail arguments which showed that the tendency should be against encouraging women to enter the labour market, alluding to the numbers of women entering pharmacy. Finally, he indicated, however, the true sphere of women, which was, he said, greater and nobler than that of man, and her task is the most sacred of all. A discussion followed in which Miss Boag, Messrs. Blair, Grieve, Robertson, Teesdale, Stout, and Hill took part.

Halifax.—The annual meeting of the Halifax Chemists' Association was held at the Old Cock Hotel on March 1, presided over by Mr. B. C. Hodgson. Mr. L. Chambers was elected *President*, Messrs. J. A. Sutcliffe and J. Patchett *Vice-Presidents*, and Mr. J. E. Wormald *Treasurer*. Mr. P. W. Swire (secretary to the Pharmaceutical Committee) and Mr. R. V. Sutcliffe (secretary to the local Association) expressed a desire to relinquish their offices, which they have held respectively for six and eleven years. Mr. Swire voiced the opinion that one member should hold both offices, and the work warranted some remuneration. Efforts to fill the offices proved unsuccessful, and it was resolved to raise the question again at the next meeting. The following resolution was passed: "That this Association is of opinion that until the result of the test case is known no action should be taken regarding the formation of a trade union of master pharmacists, and that the Local Associations Executive be asked to take any necessary steps immediately the decision in the test case has been obtained." The resolution will be forwarded to the Local Associations Executive Committee. The Insurance rota was again discussed, and a rota for the centre of the town arranged, making the Thursday duty per member once in ten weeks. The holiday rota was also settled. In lieu of the annual dinner, it was decided to have a motor char-à-banc outing in the summer.

Hull.—A numerous gathering of chemists, their assistants, and students assembled at the Royal Station Hotel on February 24 to hear Mr. Sydney Jamieson's lecture on *Petroleum—From the Wells to the Pharmacy*. Mr. Spillman (President of the Hull Pharmacists' Association) presided. Starting with the earliest record of petroleum, the lecturer traced its history up to the present time, contrasting the present-day finished article with the very crude stuff which even now the Iroquois Indians take. He illustrated his story by means of lantern slides. Mr. Jamieson, in assuming responsibility for the technical side of the lecture, gave credit to a colleague, Mr. Moss, for the historical portions.

Liverpool.—Mr. D. H. Evans (President) occupied the chair at the fortnightly meeting of the Liverpool Chemists' Association, held on February 25. The hon. secretary (Mr. A. S. Furniss) read a resolution, with covering letter, sent from a meeting of Southport and Wigan chemists, in support of the constitution of a retail chemists' trade union, with the object of preventing or neutralising the tendency of manufacturers and wholesalers to pass on their costs for transport packages and other incidental expenses to the retailer. The President said that at the close of the annual meeting a representative of the P.A.T.A. attempted to justify these charges in a way which was not to his (the President's) thinking satisfactory. He had informed several wholesalers that the matter would be revised at the present meeting. It was time for retailers to take definite action collectively. He had heard that the 1½ per cent. on carriage might soon be doubled or even quadrupled. Mr. W. H. Clubb (Vice-President) expressed sympathy with the Southport and Wigan resolution, and proposed that the resolution be referred to a special meeting of the Association. Mr. Furniss seconded. Visitors from Southport stated that the resolution was being brought before the monthly meetings of many Associations, and the acknowledgments so far to hand were definitely in favour of the proposed union. The President called upon Dr. Stanley White (of the Parke, Davis laboratories, London) to deliver his lantern lecture on *Organo-therapy*.

London (S.W.).—A meeting of the South-West London Chemists' Association was held on February 17, the President (Mr. John Humphrey) in the chair. An address was given by Mr. Hugo Wolff on *A Trade Union for Pharmacy*. He reviewed the position of pharmacy to-day and gave figures to show the growth of co-operative societies, forecasting much more competition from this quarter in the sale of pharmaceutical goods. He gave some interesting details of the working arrangements which exist in the wholesale drug trade, and mentioned that one of the functions of a retailers' trade union would be to let its members know what was a fair price to pay for the articles they handled, and where they could be bought at the right price. After referring to conditions in the soap trade and in the tablet and pill trade, the recent surcharge of 1½ per cent. by wholesale patent-medicine houses was mentioned as evidence of the working agreement among wholesalers—in short, almost every section of the trade is organised except the retailers, and in consequence the retailers suffered. Mr. Wolff then showed that a registered trade union of employer pharma-

cists was what was wanted, and outlined the requirements necessary for success. A debate followed, in which Miss Borrowman, Messrs. Atkins, Mitchell, Shenstone, Higgs, Thomas, Yeoman, and others took part. All agreed that a trade union was desirable.

Portsmouth.—Before a meeting of the Portsmouth Pharmacists' Association, held at the County Club on March 3, Dr. J. S. White, M.R.C.S., Ph.C., of Messrs. Parke, Davis & Co., delivered a lantern lecture on *Organo-therapeutics and the Manufacture of Biological Products.* Mr. J. W. Rhodes presided over a good muster of members, while several doctors in the borough attended by invitation. At question-time Dr. Cashin gave some experiences of inoculating thousands of troops during the war.

Public Pharmacists.—A general meeting of the Public Pharmacists' Association was held at St. Bride Institute, London, on February 25, Mr. J. L. P. Hollingworth in the chair. Mrs. Laxton, Ph.C., and Miss Finney were elected members. The following short papers were read: *The Culture of Pharmacy,* by Mr. J. L. P. Hollingworth; *Practical Dispensing Notes,* by Mr. A. H. Jenkin; and *My War Experiences,* by Mr. F. E. Bullen. Mr. Hollingworth advocated a generous all-round education for young persons entering pharmacy so that they could later meet medical men, dentists, etc., as equals. Mr. Jenkin contributed a host of practical notes on labour-saving devices in the pharmacy. Mr. F. E. Bullen gave a racy address on his experiences in the R.A.M.C., and a description of life in Mesopotamia concluded a very interesting paper. Messrs. Lindsey, Fouracre, Jenkin, Gurd, Hill, and Gibson took part in the discussion. It was decided to send a donation of 25s. to the Benevolent Fund of the Pharmaceutical Society, and request that a collecting-box be sent.

Sheffield.—At a recent general meeting of the Sheffield Pharmaceutical and Chemical Society, Mr. E. Preston in the chair, Mr. J. T. Humphrey spoke on *Anticipations and Realisations,* which consisted of reminiscences of his early years in Sheffield. Speaking of the present day, he said there are now 250 societies, and it is probable that they will be made branches of the Society. The oldest society in the kingdom is Aberdeen, which was founded before the Pharmaceutical Society, and, when asked to unite, the Northern chemists declined, saying the Pharmaceutical Society should link up with the Aberdeen Society, as it was the older body. Mr. Humphrey spoke in favour of a separate body being formed on trade-union lines to deal with trade matters, whatever the result may be of the coming test case. The lecturer thought the only course that could be followed was to pass the by-law, and the fight was a very good thing, showing that chemists were not prepared to sell their rights without a struggle. In the near future we shall have to be prepared for a contest, as the drug-store proprietors proposed to introduce a Bill to secure registration without examination. Strong competition is likely to be forthcoming from the co-operative societies, who contemplate enlarging very much their drug departments. They have recently increased their turnover from 20 millions to 40 millions, without being liable for income-tax. The only true professional pharmacist is the hospital pharmacist. The outside world has almost forgotten the important part the Sheffield Society played in the past, from the educational point of view in founding a complete School of Pharmacy. This enabled most of the local students to sit for their examination without leaving business. Quite a number of the members present took their first lessons in materia medica with Mr. Humphrey at the Sheffield School thirty years ago. Several members joined in a discussion. Mr. J. Gilbert Jackson strongly supported the Local Associations Executive as being all that is necessary for dealing with trade matters. He thought the fight on the by-law was the finest thing that has happened during the thirty-four years he has been in pharmacy.—The Students' Association held a recent meeting, at which Mr. Israel Best occupied the chair, when Major Peck, M.A., gave a lecture entitled *Students' Days and their Lessons.* It was decided to elect Major Peck to honorary membership of the Association.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," January 14, 1920.)

"G E M"; for spectacles, etc. (8). By R. H. Bradshaw, 13 Wilmington Avenue, Chiswick, London, W. 4. 397,195.

"Sanguinem Intra Cumulo"; for compresses (11). By Emma Nicolai, 139 Holbeinstrasse, Dresden-A., Germany. 394,925.

"Grand National" over device of ram's head on shield; for goods (42). By R. Roberts & Co. (1917), Ltd., 30 Bold Street, Liverpool. 392,378. (Associated.)

"Milkal" and monogram "D M D P" ("Milkal" and "D M D P" disclaimed); for milk preparations (42). By H. W. S. Palmer, 18 Broomfield Lane, Palmer's Green, London, N. 13. 395,751.

"Fortmason," with device of fort and mace; for food substances (42). By Fortnum & Mason, Ltd., 181 Piccadilly, London, W. 1. 396,091. (Associated.)

"Nutrose"; for goods (42). By Lichtenstein & Co., Ltd., High Street, Uxbridge, Middlesex. 396,490.

Boys playing leap-frog; for food substances (42). By Sinclair & Guest, 28 Lime Street, London, E.C. 3. 396,781.

Device of traversing jack; for mineral waters, etc. (44). By H. Whitworth, Ltd., 115 Princess Street, Manchester. 394,900. (Associated.)

"Delecta"; for mineral waters, etc. (44). By the Watford Manufacturing Co., Ltd., Victoria Works, Watford. 395,057.

"Firmo" on label device; for hair preparations (48). By H. E. Molyneux, "Summerhill," Greenfield Lane, Chester. 395,208. (Associated.)

"Eau de l'Yser" and label device, including letter "A" and 1914 ("Eau de l'Yser," "A," and "1914" disclaimed); for perfumery (48). By H. Locus, 100 Boulevard Leopold II., Brussels. 388,872.

"Pepsodent"; for teeth preparations (48). By the Pepsodent Co., 1104 South Wabash Avenue, Chicago, U.S.A. 395,079.

"Myana"; for perfumery, etc. (48). By Doudney & Co., Ltd., 333 Commercial Road, Portsmouth. 396,703.

"Bratum" and "Bratumol"; for perfumery, etc. (48). By Bradfield, Ltd., 76 Mosley Street, Manchester. 396,821/2. (Associated.)

"Linaris"; for all goods (48). By Catherine Scragg, 41 Barkston Gardens, South Kensington, S.W. 5. 397,015.

"Call of the East"; for all goods (48). By A. V. Castle, 234 Mansel Road, Small Heath, Birmingham. 397,366.

"Vulkaset," "Armadillo," "Validor," "Durador," "Standor," "Durapex," and "Compedor"; for brushes (50). By C. H. Leng & Sons, Sherbourne Road, Balsall Heath, Birmingham. 396,418/754/6/8/60/2/4/9. (Associated.)

"Avona"; for soap and polishes (50). By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 396,638. (Associated.)

(From "The Trade-marks Journal," January 21, 1920.)

"Doctor"; for chemicals for removing carbon deposits (1). By Lowington Whitehouse, High Street, West Bromwich. 397,009.

"Plasphalt"; for all goods (1). By A. E. H. Dussek, Empress Wharf, Shorman Street, Bromley-by-Bow, E. 3. 397,203. (Associated.)

"Arcturus"; for all goods (1) and for polishes, etc. (50). By Sunbeam Products, Ltd., 17-23 The Arches, Queen's Road, Battersea, S.W. 8. 397,432/4. (Associated.)

"Necoloidine"; for all goods (1). By the New Explosives Co., Ltd., 62 London Wall, London, E.C. 2. 397,692. (Associated.)

"Sox"; for agricultural chemicals (2). By Hawker & Botwood, Ltd., 50 Mark Lane, London, E.C. 3. 393,084.

"Treblefold Garden Food," etc., on sack, and imp holding garden hoe ("Treblefold" disclaimed); for fertilisers (2). By Bull's Plant Food Co., 536 King's Road, Chelsea, London, S.W. 10. 395,407. (Associated.)

"Vapuro"; for disinfectants and insecticides (2). By E. G. Fuller, 101 Mortimer Street, London, W. 1. 395,773.

"Sizolina"; for disinfectants and sheep-dips (2). By Hope, Hartope & Co., 26 Billiter Buildings, London, E.C. 3. 396,176. (Associated.)

"Ovesco"; for poultry medicines (2). "Sunbeam"; for mineral waters, etc. (44). By Murphy & Son, Ltd., 2 Dorset Square, London, N.W. 1. 396,683. (Associated); 396,810.

"Nimble"; for medicated soap (3). By Robin & Houston, Ltd., Wright Street, Renfrew. 392,886. (Associated.)

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, March 4.

A fair volume of business continues to be done in chemicals and drugs, but it appears to concentrate itself more than ever in the middle days of the week. The exchange problem, however, overshadows the markets and continues to restrict imports, particularly from the United States. Heavy chemicals continue active, but supplies of many are quite inadequate to meet the demand, and it is difficult to give prompt delivery. British makers of fine chemicals find themselves hard put to obtain necessary raw materials, and delays and difficulties appear to grow rather than diminish; the same applies to Continental makers. Lord Devonport's evidence before the Dockers' Inquiry is sufficient indication as to what importers and exporters are suffering from in the way of dock congestion, at the hands of incompetent Government officials. Among the outstanding changes of the week is a further advance of 10*l.* per ton in c.p. glycerin, and a sharp rise in citric acid; tartaric acid is also dearer, but cream of tartar is a shade weaker in one direction. Potash bromide is flat and easier, but ammon. is scarce and firmer. Salicylates, likewise aspirin, are very firm. Hexamine and phenazone have still a rising tendency. Atropine sulphate is dearer. Lactic and formic acids are cheaper. Caffeine and codeine are dearer. Morphine is lower. Sodium salts are mostly tending higher, these including prussiate, phosphate, sulphide, bisulphite, and caustic. Among drugs, Spanish ergot is held for a further advance; genuine cannabis indica is dearer, and full prices are being paid for English belladonna-root. Senega is selling at previous high rates. Japanese camphor is easier; menthol is quiet and in somewhat better supply. Oil of Japanese mint is easier; opium is steady. Other changes include a lower market for coca-leaves at Amsterdam, but cocaine is not likely to be cheaper. Linseed oil and turpentine are much dearer; shellac is dull and lower, and Japanese vegetable wax is 5*s.* to 7*s.* 6*d.* higher. Cumin-seed is active and dearer.

Higher	Firmer	Easier	Lower
Ammon. phosphate	Ammon. bromide	Anise oil, star	Bromstyrol
Amyl acetate	Cocoa-butter	Camphor (Jp. slabs)	Coca-leaves (Amst. auction)
Antimony (reg.)	Geranium oil	Cassia lignea	Lactic acid
Atropine	Lemongrass oil	Cloves (Zan.)	Morphine
Bergamot oil	Palmarosa oil	Eucalyptus oil	Pepper (black)
Caffeine	Phenazone	Fenugreek-seed	Shellac
Chillies	Soda phosphate	Formic acid	
Citric acid	Tartaric acid	Gingergrass oil	
Codeine	Vanillin	Lavender oil (Sp.)	
Cannabis indica (Bombay)		Mint oil (Jp.)	
Cumin-seed		Musk xylol	
Ginger (Jam.)		Pot. bromide (gran.)	
Glycerin		Safrol	
Linseed			
Linseed oil			
Lithopone			
Musk ambrette			
Orange oil			
Patchouli oil			
Petitgrain oil			
Phenyl acetic aldehyde			
Soda nitrite			
Soda sulphide			
Turpentine			
Wax, veget. (Jp.)			

The drug-auctions will be held next Thursday, March 11.

Cablegram.

New York, March 2.—Business is fair. Jalap is higher at 90c. per lb. Canada balsam has advanced to $16.00 per American gallon, and formaldehyde is a further 8c. per lb dearer at 58c. per lb.

Acetone is steady at about 90*l.* per ton for pure in drums. Acetone oil is quoted at from 77*l.* to 80*l.*

Agar-agar is quiet at 3*s.* 3*d.* per lb. for No. 1 Kobe strip, and at 3*s.* 1*d.* for No. 2 Yokohama.

The exports from Japan during November 1919 amounted to 77,139 kin, valued at 121,928 yen. During the eleven months ended November 30 they were as follows:

To	1917 Kin	1918 Kin	1919 Kin
China	691,077	178,120	368,022
Hong Kong	271,808	114,842	236,262
British India	48,549	19,643	37,075
Straits Settlements ...	113,195	70,161	80,298
Dutch East Indies ...	235,315	263,681	183,243
Philippine Islands ...	31,408	19,564	21,423
Great Britain	170,782	1,578,456	56,510
United States	257,454	145,086	269,277
Other Countries... ...	205,778	193,153	140,183
Kin	2,025,366	2,582,706	1,392,293
Yen	1,877,956	2,896,978	1,879,593

Albumen is quiet, with spot sellers of prime Chinese hen at 6*s.* 2*d.* per lb., afloat at 6*s.* 3*d.*, and February-March shipment at 6*s.* 7*d.* c.i.f.

Aloes.—Twelve cases of genuine Zanzibar of good quality in monkey skins have arrived, and will probably be offered next week. Good Socotrine in kegs is still very scarce and wanted.

Ammon. Phosphate is dearer and in demand, makers quoting 98 to 100 per cent. at about 130*l.* per ton in casks.

Amyl Acetate is dearer at about 375*l.* per ton in drums.

Antimony.—An official advance of 3*l.* a ton was enforced in the price of English regulus last week, which stands on the basis of 72*l.* to 75*l.*, according to brand. The market is very firm, while America has also put up her price to a considerable extent in order to attract new supplies. There is, however, a growing scarcity everywhere, more especially of crude, which remains quite nominal, with parcels afloat quoted at from 62*l.* to 64*l.* per ton c.i.f.

Apiol.—Pure can be had at about 30*s.* per lb.

Arsenic.—There is continued firmness, the current supply of white Cornish being well absorbed at from 70*l.* to 75*l.* delivered London.

Aspirin is very firm at from 6*s.* to 6*s.* 3*d.* per lb., according to seller, for spot delivery, but for forward business the tendency is upwards.

Atropine is scarce and dearer at from 45*s.* to 47*s.* 6*d.* per oz. for the sulphate. There is no lack of raw material, but transport congestion both at home and foreign ports appears to be the cause of the advance.

Bayberry-bark is offered at 5*s.* per lb. on the spot.

Belladonna-root.—For some unexplained reason supplies of Indian have fallen off; consequently buyers have had recourse to English, which has been selling at 2*s.* 6*d.* per lb.

Bismuth.—Imports of metal are said to be moderate, and there is a steady demand, the current quotation remaining at 12*s.* 6*d.* per lb. The position is well under control, and the price thus looks like being left where it is for some time.

Bromides.—Potash is still arriving from Germany in fair quantity, probably on orders placed several months ago. We do not gather that much new business is in progress at the higher rates, as German manufacturers make it a *sine qua non* that the invoice price must be that ruling on the date the export licence is granted by the German authorities. Rather easier spot conditions prevail for potash, which is flat, and 3*s.* 9*d.* will buy crystals and 3*s.* 8*d.* granular. Dealers appear to have neglected ammonia, and it has become scarcer of late at from 4*s.* 3*d.* to 4*s.* 6*d.* on the spot, and at 4*s.* 9*d.* to arrive. Sodium is 4*s.* to 4*s.* 3*d.* per lb.

Cadmium is quiet, sellers asking 6*s.* 9*d.* per lb., but business could probably be done at less.

Caffeine.—Makers have advanced the price of pure crystals to 40*s.* per lb. and B.P. citrate to 26*s.* per lb.

Canary-seed is steady at 195*s.* to 210*s.* per quarter for ordinary to good Morocco, but there is very little business doing.

Cannabis Indica.—For a parcel of genuine Bombay tops just landing, the higher price of 35*s.* per lb. is asked.

Camphor (Refined) is again easier, Japanese 2½ slabs on the spot offering at 18*s.* 9*d.* to 18*s.* 6*d.* per lb., at which business has been done; near at hand has also been sold at 18*s.* 6*d.*, and February shipment is offered at 17*s.* 3*d.* c.i.f.

The exports from Japan during November 1919 amounted to 212,313 kin, valued at 1,057,764 yen. During the eleven months ended November 30 they were as follows:

To	1917 Kin	1918 Kin	1919 Kin
British India ...	1,009,243	360,769	44,728
Great Britain ...	121,698	360,601	175,317
France	66,618	58,025	145,742
United States ...	1,460,993	520,397	1,508,270
Australia	104,683	94,720	2,026
Other Countries ...	209,276	205,243	67,082
Kin	2,972,519	1,599,755	1 943,165
Yen	5,066,347	3,316,340	7,161,652

Capsicums.—At auction 25 bales ordinary stalky Bombay sold at 68*s.* per cwt. Privately, good are quoted at 75*s.*

Caraway-seed is easy at 48*s.* per cwt. for fair Dutch on the spot.

Carbolic Acid.—The fact that export licences are still refused to certain countries (including Japan) causes considerable dissatisfaction among dealers, and has led to the cancelling of orders. The market, however, for crystals still remains very firm at from 1*s.* 4*d.* per lb. upwards for 39° to 40° C. in drums.

Cascara Sagrada.—Spot sellers quote 107*s.* 6*d.* for two-year-old and 112*s.* 6*d.* for three-year-old; to arrive 100*s.* c.i.f. is quoted for new crop.

Cassia Lignea is slightly easier, fair whole selected on the spot offering at 97*s.* 6*d.*, and broken at 75*s.* per cwt., at which sales have been made.

Chillies were dearer at auction, 89 bags Beira selling at 114*s.* to 115*s.* for fine, and 99*s.* to 100*s.* for common. Seventeen bags Nyasaland sold at from 110*s.* to 112*s.* for good to fine. Privately, Japanese are quoted at 100*s.*

Cinchona.—At the Amsterdam auction held on February 25, 1,518 packages offered (82,516 kilos.), of which 1,160 packages (58,374 kilos.) sold, quinine sulphate contents being equivalent to 1,759 kilos. The prices paid ranged from 40¼c. to 173c. per half-kilo.

Citric Acid is 6*d.* to 9*d.* per lb. dearer. Towards the close of last week spot sales were made at from 5*s.* 10*d.* to 6*s.*, but on Tuesday 6*s.* 3*d.* was paid, and at this figure the market closed on Wednesday. America seems to be the principal buyer. Makers on that side have kept their prices unaltered for a lengthy period at 84c., but cannot deliver. Italian makers claim to have done a good business for forward delivery at about the equivalent of 6*s.* per lb.

Cloves are quiet, with spot sellers of fair Zanzibar at from 2*s.* 7*d.* to 2*s.* 8*d.* per lb.

Cocaine.—Hydrochloride continues scarce on the spot at about 40*s.* per oz. Although coca-leaves were cheaper at the Amsterdam auction, the dock strike prevents access to the goods, and entails costly demurrage, so that the possibility of a cheaper finished product is not bright.

Coca-leaves.—At auction at Amsterdam, on February 25, 1,745 packages, out of 1,860 offered, sold, the total alkaloidal content being 1,176 kilos. The prices paid ranged from 16¾c. to 87c. per half-kilo., the average unit being 33.14 cents, against 58.10c. at the previous auction.

Cocoa-butter is firmer, prime English offering at 2*s.* 11*d.* per lb.

Codeine.—Makers' prices have advanced to 27*s.* 6*d.* per oz. for the pure crystals and to 23*s.* for hydrochloride, sulphate, and phosphate in contract lots of 175 oz.

Cod-liver Oil.—Our Bergen correspondent writes on February 26 intimating that there are fair prospects for a continued good fishing. Up to February 20 the following results had been obtained:

	1918	1919	1920
Catch of cod (millions)	0.7	1.3	2.9
Yield of c.l.o. (hect.)	670	1.900	4.800
Liver for "raw" oils (hect.) ...	100	900	1.230

The market is dull, with little business passing. The exports up to February 15 amounted to 2,700 barrels. Several agents in London appear to have received information to the effect that there is every prospect of a good yield and lower prices this season. As yet there appear to be few firm offers of new Lofoten oil, although several tentative or speculative offers have been made at lower prices.

Copper Sulphate.—There is a fair business passing, chiefly for export, with sellers asking 50*l.* per ton f.o.b. Liverpool, in casks, less 5 per cent., but some makers might take less.

Coriander-seed is steady at 22*s.* 6*d.* per cwt. for fair Morocco and 20*s.* to 21*s.* for old crop.

Cream of Tartar is, if anything, the turn easier, having arrived a little more freely: 98 to 99 per cent. powder can be had at 290*s.* per cwt., less 2½ per cent. from importers, while another still asks 300*s.*

Cumin-seed continues in active demand, and prices are dearer at 42*s.* 6*d.* to 45*s.* per cwt. for ordinary to fair Morocco, and 47*s.* 6*d.* for good sifted. Malta has been sold at 52*s.* 6*d.* per cwt. on the spot.

Emetine Preps. are dearer in sympathy with ipecacuanha.

Ergot.—Spot holders of Spanish now ask 35*s.* per lb.

Farina is steady, with spot sales of No. 1 Japanese at 38*s.* per cwt., and for January-March shipment 37*s.* 3*d.* c.i.f. has been paid. Sweet potato flour is quoted at 33*s.* 6*d.*

Fenugreek-seed is in little request, and prices are easier at 15*s.* to 15*s.* 6*d.* per cwt., according to quality and quantity.

Formaldehyde is still very scarce on the spot, and a further rise of 8c. (58c. per lb.) is announced in our New York cable. Forward business has been done in quantity at considerably below the ruling spot prices.

Formic Acid is slightly easier, 80-per-cent. commercial offering at about 116*l.* and 70-per-cent. at 110*l.* per ton in barrels.

Ginger.—Importers of Jamaica have raised their prices by about 30*s.* per cwt. to 140*s.* to 150*s.* per cwt. on the spot for ordinary grinding quality to medium bold hard. At auction 539 bags Cochin were bought in at 70*s.* to 80*s.* for slightly wormy, and 61*s.* to 62*s.* 6*d.* for very wormy. In Liverpool small sales of Sierra Leone have been made at 65*s.* per cwt.

Glycerin.—The British refiners on Friday, February 27, advanced the prices of chemically pure (s.g. 1.260) by 10*l.* per ton to 130*l.* per ton, naked, this being the minimum quotation in drums for 5-ton lots on contract. This follows on one of 5*l.* in January last.

Hexamine has still a rising tendency in conformity with the American market; from 16*s.* to 17*s.* per lb. is quoted on the spot.

Ipecacuanha.—Arrivals amounting to 88 bales have taken place from Monte Video to Liverpool. Re-sales of Johore have been made at 18*s.*, and for Matto Grosso up to 20*s.* has been paid from second hands.

Jalap.—Our New York cable reports an advance to 90c. per lb. (say 5*s.* 3*d.*), but cheaper than this can be done in London, owing to imports from Germany.

Kola.—Sales of West African quarters have been made at 5½*d.* per lb. in Liverpool.

Lactic Acid is cheaper, B.P. quality offering in 60-kilo. carboys at 10*s.* per lb., and U.S.P. quality at from 9*s.* to 10*s.* c.i.f. to arrive. Technical (50 per cent.) is also easier at about 70*l.* per ton in barrels.

Lead Compounds.—Everything turned out by home makers is rapidly taken up, and buyers make no complaint of the abnormally high prices ruling. The position in raw material is unsettled, with prices again downward inclined. Corroders cannot certainly be blamed for the inflated rates ruling, which are entirely due to the recent aggressive manipulation in pig-lead. Good quan-

tities of white-lead continue to be imported from America, a large portion of which is being re-exported, chiefly by makers' own agents.

Linseed is dearer at 54*s.* to 57*s.* per cwt. for good quality on the spot.

Linseed Oil.—As apparent from the much stiffer attitude of crushers and the growing scarcity of spot oil, the rise threatens to go further. Business has been done up to about 128*s.* 6*d.* per cwt. net naked delivered for spot and in Hull up to 122*s.* 9*d.* has been paid, but a slight reaction has since taken place. Argentine seed has now actually reached 50*l.* per ton for near arrival. Offers of Indian new crop are eagerly waited for by crushers, but business depends on the terms that will be accepted. The Indian crop outlook is very good.

Lithopone has become very scarce and dearer by about 10*l.* per ton in a month, 30-per-cent. white offering at about 62*l.* per ton c.i.f. Liverpool.

Menthol is quiet and easier, with spot sellers of Kobayashi-Suzuki at 68*s.* per lb., and for afloat 65*s.* c.i.f. has been paid; 250 cases have arrived from Japan.

The exports from Japan during November 1919 amounted to 11,336 kin, valued at 199,365 yen. During the eleven months ended November 30 they were as follows:

To	1917 Kin	1918 Kin	1919 Kin
British India ...	12,385	17,854	7,682
Great Britain ...	57,418	115,649	50,515
United States ...	147,745	66,802	155,684
Other Countries ...	19,499	22,234	10,703
Kin	237,047	222,539	224,584
Yen	1,510,168	1,410,682	2,301,902

Milk Sugar is steady at 2*s.* 2*d.* per lb. on the spot.

Morphine.—Makers have reduced their prices, the basis price of hydrochloride powder now being 15*s.* per oz.

Nux Vomica has still a rising tendency at from 52*s.* 6*d.* to 55*s.* per cwt. for Cochin on the spot. To arrive it is difficult to get offers owing to the rise in the Indian exchange, and higher prices are practically assured.

Opium.—Further large orders in the primary markets for Japanese account keep the market for Turkish opium firm. Spot prices of "druggists" are steady at from 20*s.* to 21*s.*, and Persian is 45*s.* to 50*s.* per lb.

Smyrna, February 13.—The sales this week amount to 33 cases selected druggists' Karahissar at piastres 920 per oke, which is equivalent to 17*s.* per lb. c.i.f. The position is easier, and we foresee a drop to 16*s.* 6*d.* soon. The exchange to-day is piastres 408 per pound sterling for cheque and $0.82 for one Turkish paper pound. The arrivals in Smyrna are 1,480 cases, against 165 at same date last year.

The Government of India have decided to raise the upset price of opium sold at the Calcutta sales from the present minimum of Rs. 4,500 a chest to Rs. 5,000, with effect from February 1.

Pepper is lower, the value of fair *black* Singapore on the spot being 10½*d.*, at which sales have been made; sellers of January-March shipment quote 10½*d.* c.i.f., and March-May shipment 10¾*d.* c.i.f. Lampong is 10½*d.* spot and February-April 10½*d.* c.i.f. Tellicherry is 1*s.* 1*d.*, and Alleppy 10¾*d.* spot. *White* pepper is quiet, the value of Muntok being 1*s.* 5½*d.* spot, and for afloat 1*s.* 5*d.* c.i.f. has been paid. Singapore is 1*s.* 5*d.*, and February-April shipment is 1*s.* 4½*d.* c.i.f.

Phenazone is very firm and in still rising tendency; spot is quoted at from 27*s.* to 29*s.* per lb.

Potash Iodide.—The exports from Japan during November 1919 amounted to 8,249 kin, valued at 59,272 yen. During the eleven months ended November 30 they were as follows:

	1917	1918	1919
Kin	145,078	171,358	93,118
Yen	912,929	1,062,009	609,313

Of *crude iodine* 673 kin, valued at 6,690 yen, were exported during November, and the exports for the eleven months ended November 30 were:

	1917	1918	1919
Kin	40,613	55,899	122,653
Yen	291,269	360,638	55,989

Potash Permanganate.—For commercial qualities of British make the price is about 3*s.* 3*d.* per lb. in ton lots, and for B.P. crystals from 3*s.* 6*d.* to 3*s.* 9*d.* per lb. is quoted in 100-lb. kegs. Home makers are doing the utmost to effect delivery, but the demand is very heavy at present, and there is a certain amount of delay in the delivery of B.P. quality. Price is likely to remain steady for some time to come. In the dealers' market imported parcels are scarce and dearer.

Quinine is unaltered at from 5*s.* to 5*s.* 6*d.* per oz. for sulphate from second hands. Makers quote 4*s.* 5*d.* per oz., and report an active demand.

Quinine Hydrochlor. is selling at from 7*s.* 3*d.* to 7*s.* 6*d.* per oz. in 100-oz. tins.

Resorcin is quoted at 35*s.* per lb. in one direction.

Salicylates are firm, English makers of B.P. acid powder asking 3*s.* 9*d.* per lb., with some second-hand sellers asking 3*s.* 6*d.* Sodium salicylate powder is in upward tendency at from 4*s.* 3*d.* to 4*s.* 6*d.* per lb.

Santonin.—On the basis of 75*l.* per kilo business is reported from second hands.

Sassafras Bark of root is offered at 4*s.* 6*d.* per lb. on the spot.

Senega.—Spot sales have been made at 13*s.* 6*d.* per lb. with 14*s.* asked.

Shellac is quiet and about 5*s.* lower on spot, usual standard orange TN quality offering at 825*s.* per cwt. fine orange is 1,000*s.*; A.C. cakey, 620*s.*; and G.A.L. 600*s.* Sales for delivery include May at 750*s.* to 710*s.* to 725*s.*, and August at 600*s.*

Soda Salts are all firm and active. *Bichromate* is scarce and somewhat nominal at 1*s.* 6*d.* *Hyposulphite* is also scarce, the value of pea crystals being about 30*l.* per ton. *Nitrite* is considerably dearer at about 80*l.* per ton for 96 to 98 per cent. in casks. *Phosphate* is firmer at 40*l.* per ton for commercial crystals (97 to 100 per cent.) in casks and bags. *Prussiate* is scarce and dearer at 1*s.* 9*d.* to 1*s.* 10*d.* for yellow. *Sulphide* is much higher at 19*l.* 10*s.* per ton for 30 to 32 per cent. crystals, and 38*l.* 10*s.* for 60 to 62 per cent. concentrated.

Soda Tartarata is extremely scarce on the spot, and first-hand quotations to come forward from U.S. are in the neighbourhood of 2*s.* 8*d.* to 2*s.* 10*d.* per lb.

Sulphonal is in small demand at about 51*s.* per lb.

Sulphurous Acid.—Current value of s.g. 1.025, 5-per cent. solution is about 8*l.* 10*s.* per ton in hogsheads.

Tartaric Acid is firmer at 3*s.* 11*d.* to 4*s.* per lb. on the spot. Some dealers and merchants who have stocks are holding off the market for much higher prices, which they anticipate will be paid before the half-year is closed.

Turpentine has advanced about 14*s.* per cwt. on the spot, from 202*s.* 6*d.* to 214*s.* having been paid. The margin between spot or near delivery and forward positions has widened steadily, due to the increasing stringency in the former.

Vanillin is firmer at from 81*s.* to 81*s.* 6*d.* per lb.

Wax, Vegetable, is dearer. Towards the close of last week spot sales were made at from 100*s.* to 106*s.*, the value now being 107*s.* 6*d.* per cwt.

The exports from Japan during November 1919 amounted to 202,882 kin, valued at 110,569 yen. During the eleven months ended November 30 they were as follows:

	1917	1918	1919
Kin	4,106,876	8,409,604	1,413,951
Yen	1,263,786	2,886,824	628,285

Zinc Oxide.—There is a steady demand, and the tone is firm. Prominent makers quoted "White Seal," 99.9 per cent., at 80*l.*; "Green Seal," 99.8 per cent., 75*l.*; and "Red Seal," 99.7 per cent., 70*l.* per ton.

Essential Oils Market.

The French Strike of railway employés happily did not last sufficiently long to affect business seriously. On the whole, reports state that trade continues brisk, and higher prices are quoted daily. In some cases supplies undoubtedly are scarce, but parcels are said to be frequently obtainable when holders' prices are forthcoming. Star anise is dull; bergamot is higher on the whole, and the tendency is still in an upward direction. Citronella is steady. Clove and geranium are firm. Gingergrass is somewhat easier, and lavender does not show much change. Lemon is dearer at the source, and lemongrass continues to be very firm. Mandarin is steady, and Japanese mint is easier. Nutmeg is nominal. Great activity is reported in orange, and both varieties are dearer. Palmarosa is very firm, but dealers report that it is not so scarce as it would seem to be. Patchouli

ws an upward tendency. Petitgrain is dearer; rosemary firm, and higher prices are predicted. Spike, valerian, d vetivert are steady. The prices of synthetics are inning more towards stability, and supplies are coming in m U.S. and from Germany which should tend to settle e present uncertainty of the market.

Anise Oil, Star, continues dull, with "Red Ship" brand fering at 5s. 5d. to 5s. 6d. per lb. on the spot.

Bergamot is offered at prices varying from 28s. 6d. per lb. 32s. 6d. c.i.f. London for 38/39 per cent. l.a. Spot parcels ve been obtained at 26s. 6d. this week. A Palermo advice ted February 21 states: This oil is advancing in price, d the demand both locally and from abroad is very active.

Bois de Rose continues to be scarce, and 59s. per lb. s been quoted, although spot holders would probably be und to supply at less.

Caraway.—From a Dutch source it is stated that crops e now being grown again, and the opinion has been exessed that lower prices may be expected in the future.

Cassia.—For 80 to 85 per cent. 9s. 9d. per lb. is quoted; to 75 per cent. 9s. 3d.

Citronella is firm at 3s. 6d. per lb. on the spot and 3s. 3d. come forward for *Ceylon*. There appears to be no spot fers of *Java*, and the forward shipment price is steady t 6s. 3d.

Clove.—The English distillers' price is 22s. per lb., but econd-hands offer at slightly less.

Coriander.—French distilled has been quoted at 350s. er lb. ex wharf London. A Dutch product described as igh grade is quoted at 235s. per lb. c.i.f. London. It is redicted that German distilled will not appear for some me yet.

Eucalyptus.—The *Benalla* has brought 31 cases of eucaptus oil from Adelaide and the *City of Madras* 150 cases. or 70 to 75 per cent. cineol the price quoted is 3s. 2d. 3s. 3d. per lb.

Geranium.—The report that *La Ville d'Algiers* with a rgo of Algerian oil on board (*C. & D.*, February 28, p. 103) as been lost, is confirmed, and it is stated that 4,000 kilos. as destroyed. This may probably cause a further hardenng of prices. It is reported that a Spanish oil may be xpected on the market in the near future at favourable rices. *Bourbon* is firm at 38s. to 40s. per lb. There ppears to be still no *French* on offer. *Algerian* is quoted t 39s. The *Canterbury* brought 26 packages of geranium il to Dover.

Gingergrass.—The "insoluble" variety has been quoted t 17s. per lb., but on the spot 18s. to 18s. 6d. is probably earer the present value. To come forward c.i.f. London 8s. is asked.

Hyacinth is very scarce; the last crop is described as ad on account of the wet weather.

Lavender is unchanged for French oil, which continues rm. For a 33 per cent. ester, French, 42s. 6d. per lb. has een paid this week, and a product said to contain the high ster content of 53 per cent. is quoted to come forward at s. *Spanish* is somewhat easier at 29s. 6d. per lb

Lemon for forward delivery is offered at from 9s. 9d. to 0s. 9d. c.i.f., and on the spot 10s. to 10s. 3d. is quoted. At Palermo an active demand is reported at home and abroad.

Lemongrass continues in strong demand at from 1s. 4d. to s. 5d. per oz. It is stated that 1s. 6d. has been asked, but usiness does not appear to have been done at this price, lthough a further rise is predicted in some quarters. An msterdam report states that at the Government "tender" ales in February over 2,000 kilos. of *Java* oil were offered t 20½ florins per kilo. (present exchange rates, 9.20 lorins=20s.).

Lime.—Hand-pressed is quoted at 17s. per lb. this week. istilled is firm at 7s.

Linaloe is very scarce on the spot, and 35s. to 37s. per lb. has been quoted. Shipments are expected shortly, and 32s. 6d. c.i.f. London would be accepted.

Mandarin.—At the source 52s. 6d. per lb. has been quoted.

Mint Oil.—Japanese dementholised is quiet and easier, with spot sellers of Kobayashi-Suzuki at 15s. 9d. per lb. on the spot.

The exports from Japan during November 1919 amounted to 8,069 kin, valued at 45,234 yen. During the eleven months ended November 30 they were as follows:

	1917	1918	1919
Kin	211,062	176,298	362,502
Yen	481,734	421,127	1,153,048

Neroli.—To come forward from Italy 120s. per lb. is asked. For Spanish (Bigarade) 22s. per oz. on the spot is quoted. French is very scarce, and high prices are the rule.

Nutmeg is extremely scarce, and this is said to be due to high cost of freightage; 13s. 6d. to 15s. has been quoted c.i.f. London.

Orange.—Considerable variation in prices is quoted, and it is probable that values will still be higher. From various primary sources it is reported that there are no supplies on offer, and the demand from America is considerably in excess of available supplies. While some importers are still offering about the prices quoted last week, from 35s. to 50s. per lb. for *Sweet* is being asked, and *Bitter* 35s. per lb. to 40s. For West Indian holders have quoted at 35s. A Palermo advice dated February 21 states: The demand continues to be very active, whilst the available supplies are so extremely scarce that they might be considered as almost exhausted for this season. The pressing has come to an end. Some trifling quantities were bought locally during the last week at an advance of 35 per cent. The *Trident* brought 27 cases West Indian oil to London, but this, we understand, was sold before it arrived.

Palmarosa is quoted again higher at from 24s. 6d. per lb. to 27s. on the spot, and there appears to be no supplies coming in. The former price has been paid.

Patchouli.—It is said that the bulk of present supplies are either of Japanese or American origin, as the bulky nature of the raw material militated against the French distillers obtaining supplies during the war owing to transport being reserved for other substances. Higher prices are asked, and these range from 75s. per lb. to 90s. This week 85s. has been paid for Japanese. For American 75s. has been paid. Spot supplies are on offer at 76s. 6d.

Pennyroyal.—The demand is slow, and price is unchanged at 8s. 6d. per lb.

Peppermint.—Business is quiet this week, and inferior parcels of American are stated to be on offer. An Italian oil from Mitcham plants is quoted at 55s. per lb. on the spot.

Petitgrain.—There is a good demand for *Paraguayan*, and from 26s. per lb. to 28s. is said to have been paid this week, but spot parcels can be found at 24s. to 25s. To come forward 23s. to 25s. is quoted. It is stated that a Paris syndicate has bought up the available supplies of *French* at Grasse.

Pimento.—A brisk demand is reported, and an upward tendency is shown at 25s. on the spot and 26s. per lb. c.i.f. London.

Pine.—*Sylvestris* and *pumilio* do not appear to be obtainable on the spot. For the former 23s. per lb. and 22s. for the latter c.i.f. London is quoted in one direction.

Rosemary.—*Spanish* is firm at 6s. per lb. on the spot. The new supplies are not yet due, and the old stock is being rapidly depleted. A further rise is therefore anticipated in some quarters. French is firm at 8s. 6d.

Sandalwood.—It has been reported that an oil (origin not stated) with a high santalol content will shortly be placed on the market to compete with the Mysore Government product. The latter is offered at 50s. per lb. in five-case lots.

Spike.—There is little to be found on the spot, and for *French* 15s. 6d. per lb. is about the price; for *Spanish* from 13s. 6d. to 14s. is asked.

Valerian is quoted at 25s. per lb. c.i.f. London, but on the spot 30s. is asked. The tendency appears to be upwards.

Amyl Salicylate is still scarce, and from 13s. 6d. to 15s. per lb. is being asked for Continental material. Benzyl Acetate of fine quality is on offer at 12s. 6d. per lb., which is dearer. Benzaldehyde free from chlorine is difficult to obtain, and a product with traces of cl. can be purchased at 5s. 6d. per lb. Citronellol is very firm at 90s. per lb. Bromstyrol ex Germany can be purchased at about 35s. per lb., or possibly less for quantity. The average spot price is about 39s. Coumarin.—While the maximum price in Germany has been fixed at m.950, as announced last week, export prices are considerably higher. The spot price is unchanged at from 40s. to 45s. per lb., and for forward delivery 38s. is quoted. Diphenyl Methane is obtainable on the spot at 7s. 8d. per lb.; *oxide* at second hands 12s. 6d. From primary sources 10s. 9d. has been quoted. Methyl Anthranilate is in small demand, and from 40s. to 45s. per lb. on the spot is asked. Methyl Benzoate (artificial Niobi oil) can be obtained on the spot at 15s. per lb. Musk Ambrette is dearer at from 307s. per lb. to 320s. For a parcel afloat 300s. is quoted, and for *xylol* 44s. to 48s. c.i.f. London has been asked Phenyl Acetic Aldehyde.—For highest qualities up to 135s. per lb. is quoted this week. Rhodinol is in short supply, and while the price for highest quality is about 90s. per lb. in one direction, 65s. per lb. is quoted and 50s. forward. Safrol.—A large consignment has arrived recently, and is offered on the spot at 6s. per lb. to 6s. 3d., according to quantity. The average price appears to be about 6s. 6d. to 7s. per lb. Terpineol.—An order placed in the U.S. about eighteen months ago has just been delivered, and supplies therefrom can be had at 6s. 6d. per lb. ex stock London. French is difficult to find, and the price is well maintained at about last week's quotation (7s. 3d. to 7s. 6d.).

Arrivals of Drugs, Chemicals, etc.

This section is now restricted to imports of direct interest to the Chemical and Drug trades.

The following products have arrived at the ports named:

Liverpool.
(Jan. 19 to 31).

Chemical products,etc., (Antw.) 26 cks., (U.S.) 48 brls.
Acetic acid (St. John, N.B.), 136 brls.
Arsenic, (Antw.) 101 cks., (Germ.) 50 cks.
Borate (Chile), 5,886 sks.
Borax (Arica), 700 sks.
Boric acid (It.), 59 brls.
Calc. borate (S. Amer.), 1,687 bgs.
Collodion (N.Y.), 10 drms.
Iron glyceroph. (New York), 5 cs.
Lead carconate (R'dam), 185 cks.
Magnes.chlor.(Holl.), 48 cks.
Pot. chlorate (Fr.), 9 cs.
Pot. pruss. (Holl.), 14 cks.
Potash, caustic (Holl.), 151 drms.
Pot. carb. (Holl.), 109 cks.
Potash salts(Hamb.), 7,173 bgs.
Soda caustic (N.Y.), 33 drms. 20 cs.
Soda chlorate (Fr.), 220 cks.
Soda nit. (Chile), 22,093 sks.
Sulphur (Sic.), 134 brls. 5,179 bgs.
Tartar (Sic.), 18 cks.
Tartaric acid (It.), 76 brls.

Drugs, crude, etc.: (Fr.), 71 cs. 42 brls.
Aloes (Cape) 256 cs.
Cinchona, (Jv.) 202 bls., (Mollendo) 80 bls.
Cod-liver oil (St. John's) 238 brls.
Jaborandi (R'dam.), 100 bls.
Kola (W. Af.), 423 bgs.
Liquorice (Sic.), 5 cs.
Opium (Tky.), 5 cs.
Orris (It.), 15 bgs.
Quillaia (S.Amer.),96 bls.

London
(February 2 to 9).

Chemical products,etc.: not described, (Swe.) 17 pkgs., (Holl.) 23 cs. 28 pkgs.
Acetic acid (U.S.), 558 brls.
Ammonia (N.Y.),210 cs.
Argol,(Sic.) 200 bgs., (Fr.) 275 bgs., (It.) 194 pkgs.
Arsenic, (S'pore) 23 cs. 10 brls.,(Amst.) 388 cks., (Port.) 84 brls., (Jp.) 140 cs.
Barytes, (Germ.) 100 cks. 319 bgs., (Belg.) 543 bgs.
Bismuth ore, (Aust.) 276 bgs., (Beira) 534 bgs.
Bromides (Hamb.), 19 cs
Calc. cit. (W.I.), 111 bgs. 93 cks.
Calc. lact. (St. John, N.B.), 25 pkgs.
Citric acid (Sic.),300 brls.
Formaldehyde(N.Y.) 154 brls.
Hydroquinone (Fr.), 33 pkgs
Lactic acid (St. John, N.B.), 60 cs.
Magnes. chlor. (Antw.), 23 cs.
Pot. chlorate (N.Y.), 300 cs.
Pot. pruss. (Swe.), 4 cks.
Potash salts(Hamb.) (sulphate), 5,000 bgs.; not deser. 29 cs. 9 pkgs., (kainit) 1,568 bgs.
Quicksilver (Sp.), 5,000 flasks.
Saccharin (N.Y.), 24 cs.
Sal ammoniac (Swe.), 80 cks.
Saltpetre (R'dam), 13 cs.
Soda nitrate (Chile), 21,883 sks.
Tannic acid (St. John, N.B.), 38 brls.
Tartar, (Fr.) 141 cks. 338 bls. 506 bgs. 411 sks., (It.) 21 cs., (Sic.) 161 pkgs.
Tartaric acid (Sic.), 100 brls.
Wine lees (Sp.), 368 bgs.
Zinc oxide(U.S.), 308 brls.
Zinc sulph. (R'dam), 21 cks.

Drugs, crude, etc.:
Benzoin (S.S.), 278 cs.
Calumba (Delag. Bay), 325 bgs.
Camphor, (Jp.) 50 cs., (N.Y.) 730 cs., (Ch.) 126 cs.
Cardamoms (Cey.), 69 cs. 59 pkgs.
Cascara (U.S.), 2,353 pkgs.
Castor seed(Durban), 840 bgs.
Croton seed (Cey.), 836 bgs.
Dragon's blood (S'pore), 25 cs.
Euphorbia (E.I.), 14 bls.
Galangal (Ch.), 60 bls.
Galls (Ch.), 26 cs.
Henbane (P. Said), 33 bls.
Liquorice,(It.)30 cs., (Smyr.) (paste)250 cs., (root) 64 bgs., (powder) (Fr.) 12 cs.
Menthol (Jp.), 50 cs.
Myrrh (Aden), 76 bgs.
Opium, (Tky.) 200 cs., (Jp.) 5 cs.
Rhubarb (S'hai), 34 cs. 97 bls.
Sandalwood (Aust.), 51 bdls.
Senna (Alex.), 216 pkgs.
Strophanthus(Beira) 40 bgs.
Witch hazel (N.Y.), 50 brls.

Oils, essential: bergamot (Sic.), 21 pkgs; cinnamon (Cey.), 20 cs.; eucalyptus (Aust.), 426 cs.; lemon (Sic.), 141 pkgs.; lime (Fr.), 4 cs., (W.I.) 10 × ½ cs. 17 cs.; mint (Jp.), 50 cs.; orange (W.I.), 14 cs.; peppermint (N.Y.), 25 cs.; petitgrain (S. Amer.), 10 cs.; sandalwood (Aust.), 14 cs.; turpentine, (Swe.) 19 brls., (Fr.) 100 cks. 100 brls., (Antw.) 350 brls.; not described, (S'pore) 17 cs., (Sic.) 43 × ½ cs. 26 pkgs., (N.Y.) 43 pkgs., (Fr.) 14 drms., (Holl.) 33 pkgs.

Liverpool
(February 2 to 7).

Chemical products,etc.:
Borate,calcin.(U.S.), 2,914 sks.
Borax (Chile), 3,289 bgs.
Calc. tart. (Gre.), 300 bgs.
Magnes. chlor. (Amst.), 22 cks.
Potash salts, (chloride) (Amst.) 50 cks., (Hamb) 1,000 bgs., (sulph.) 1,414 bgs.
Soda chlorate (Fr.), 300 cks.
Soda nitr. (Chile), 42,252 bgs.
Tartar (Fr.), 33 cks. 267 bgs. 12 cks., (Port.) 26 cs.
Zinc oxide (N.Y.), 233 brls.

Drugs and chemicals, not described (U.S.), 192 cs.

Drugs, crude, etc.:
Aloes (Curaçao), 125 cs.
Calabar beans(W.A.) 183 bgs.
Elemi (Manilla), 280 cs.
Bark and roots, not described (N.Y.), 15 cs.
Ginger (W.Af.), 622 bgs.
Gums, resins, etc.: acacia (W. Af.), 9 bgs.; resin (Fr.), 100 brls. 1,388 cks.
Honey (S. Amer.), 57 brls.
Wax: paraffin (U.S.), 385 bgs. 180 brls.; (scale) (U.S.), 150 brls.

Goole.
(February 2 to 3.)

Formic acid (Holl.), 104 cbys.; potass. binoxal. (Denm.), 78 cks.

Hull.
(February 1 to 6).

Acetic acid (N.Y.), 962 brls., (Swe.)103cks.; formaldehyde(N.Y.), 75 brls.; kainit (Holl.), 400 tons; naphthalene (Antw.), 50 cks.; pot. pruss., (Holl.) 14 brls., (Swe.) 14 brls.

Manchester
(January 31 to February 6).

Arsenic (Hamb.), 80 cks.; resin (Fr.), 278 cks.; soda chlorate (Swe.), 450 pkgs.; tartar (Fr.), 200 bgs.

London
(February 9 to 16).

Chemical products,etc.: not described, (Belg.) 17 pkgs. 39 cks., (Holl.) 95 cs.
Acetanilide (N.Y.), 25 brls.
Acetic acid (St. John' N.B.), 481 brls.
Argol (Fr.), 197 bgs.
Arsenic (Fr.), 12 cs.
Barium oxide (Fr.), 22 cks.
Barytes, (Bremen) 205 cks., (Holl.) 154 cks., (U.S.) 400 brls.
Butyric acid (N.Y.), 22 cbys.
Menthol (C'hagen), 11 cs.
Mercury (Holl.), 10
Potash, salts (not described),(Hamb.) 20 cs., (Holl.); (kainit) 638 bgs. (Germ.),1,000 bgs.
Pot. cyan. (Amst.), 16 cs.
Quinine (Amst.),6cs.
Tannic acid (N.Y.), 19 brls.
Tartar (Fr.), 792
Tartaric acid (Belg.), 10 cs.
Thorium nit. (Holl.), 20 cs.
Zinc. oxide (N.Y.), 400 brls.

Drugs, crude, etc.: not described, (N.Y.) 339 pkgs., (Rio) 6 cs., (St. John's, N.F.) 54 pkgs.; herbs (Fr.), 14 bls.; roots (Antw.), 8 bls.
Aloes (Cape), 126 cs.
Balsam tolu (N.Y.), 25 cs.
Benzoin (S'pore), 103
Canagra (N.Y.), 32
Cardamoms (Cey.), 30 cs.
Chamomiles (Ghent), 40 bls.
Cinchona, (Tuticor.) 41 bls., (Fr.) 20 cs.
Cod-liver oil (Holl.), 50 cs.
Dragon's blood (P'nang.), 6 cs.
Galls, (Smyr.) 168 bgs., (Basra) 1,669
Gamboge (S'pore), 6
Henbane (Alex.), 39
Liquorice (Smyr.), 350 cs.
Nux vomica (E.I.), 62 bls.
Orange-peel (Malta), 53 cs.
Senna (Tinn.), 23 bls.
Tamarinds (Cal.), 65 cks.

Oils, essential, etc.: not described (N.Y.), 6 cs.; anise (Amst.), 40 cs.; bay (W.I.), 2 cks.; cananga (Jv.), 2 drms.; citronella (E.I.), 3 drms. 13 crts.; mint (Jp.), 25 cks.

Liverpool
(February 9 to 14).

Bismuth ore (Ch.), 447 bgs.

Chemical products,etc.:
Argol (It.), 151 bgs. 100 cks.
Calc. acet. (U.S.), 1,610 bgs.
Calc. borate (Chile), 3,971 bgs. 3,431 sks.
Hexamine (N.Y.), 16 kgs.
Lithia carb. (N.Y.), 20 brls.
Potash, caustic (Holl.), 13 drms.
Pot. mur. (Holl.), 244 bgs.
Saltpetre (E.I.),1,000 bgs.
Soda nitrate (Chile), 15,358 bgs.
Sulphur (Sic.), 34 brls.
Tannic acid (N.Y.), 25 brls.
Tartar, (It.) 40 brls., (Fr.) 97 cks. 81 bgs.
Tartaric acid (It.), 210 brls.
Zinc oxide (Fr.), 200 bgs.

Drugs, crude, etc.: not described; leaves (Fr.) 54 bls.; roots (? ipecacuanha) (Bahia); 40 bgs.
Camphor (Ch.), 8 cs.
Cod-liver oil (Jp.), 215 cs.
Tuba roots (S'pore), 234 bls.

Lime-juice (W.I.), 15 cks.

Oils, essential: not described (Fr.), 60 cs.; bay (W.I.), 4 cs.; lime (W.I.), 4 cs.; turpentine (Swe.), 10 brls.

London
(February 16 to 23).

Chemical products,etc.: not described (Germ.), 45 cs. 138 brls. 40 pkgs.
Acetanilide (N.Y.), 47 brls.
Acetone (Holl.), 52 drms.
Ammon. nit. (Norw.), 93 cks.
Argol (Sic.), 430 bgs.
Arsenic, (Jp.) 760 cs., (Germ.) 20 cks.
Barytes, (Germ.) 132 cks. 95 cs., (Holl.) 30 cks.
Benzoic acid (Germ.), 5 brls.
Bromides (Germ.), (potash) 20 pkgs., (soda) 9 cs.; not described, 30 cs.
Caffeine (Germ.), 5 cs.
Calc. cit. (Sic.), 267 cks.
Citric acid (Finl.), 30 brls. 175 csks.
Creosote (Swe.), 57 cs.
Fusel oil, (Antw.) 10 cks., (Swe.) 19 drms.
Hexamine (N.Y.) 7 pkgs.
Magnesium (Germ.), 7 brls.
Mercury (Trieste), 875 bots., (Fr.) 200 bots., (It.) 270 pkgs.
Mercur. oxycyan. (Fr.), 6 cs.
Methyl sal. (N.Y.), 20 cs.
Milk sugar (Germ.), 9 cks.
Paraformaldehyde (Fr.), 12 cs.
Pot. chlorate, (Fr.) 400 cks., (Antw.) 20 brls.
Pot. pruss. (Germ.), 10 cks.
Potash salts: chlorate (Germ.), 22 cks.; sulph (Germ.), 12,250 bgs.
Salicylic acid, (N.Y.) 19 bls., (Germ.) 5 cs. 13 pkgs.
Saltpetre, (Cal.)1,020 bgs.,(Germ.)43 bgs.
Soda nitr. (Norw.), 21 cks.
Soda perox. (Norw.), 50 cs.
Soda sulph. (Germ.), 20 brls.
Sulphur (Sic.), 1,998 bgs.
Tannic acid (N.Y.), 40 brls.
Tartar, (It.) 79 brls. 333 bgs. 56 pkgs. 20 cks., (Sic.) 177 bgs. 16 cks 370 brls. 44 cs., (Sp.) 47 brls., (Fr.) 118 brls.
Tartaric acid, (284 bgs., (S 100 cs.
Zinc oxide (Germ 12 brls.

Drugs, crude, etc., described, (B'b 20 bgs., (N.Y.) pkgs. 147 cs.; b roots and her (N.Y.) 26 cs. 1 pkgs. 242 1 101 bgs., (It.) bgs., (Sp.) 18 b (Germ.) 49 pkgs
Aloes (N.Y.), 200
Benzoin (S'por 51 cs.
Camphor, (Ch.) 1 cs., (N.Y.) 53 cs.
Cardamoms, (E. 141 cs., (N.Y.) 3
Cod-liver oil (Norw 505 brls.
Ergot (Sp.), 44 bg
Galls, (Ch.) 200 (Basra) 433 bgs.
Gentian (Fr.), 18 b
Insect flowers (T este), 50 b powder (Triest 20 brls.
Jalap (Germ.),66 b
Juniper berries (I 92 sks.
Laurel oil (Triest 4 cs.
Liquorice, (Sic.) 2 pkgs. 130 (It.) 10 cs.
Liquorice root (Sic 40 bgs.
Olibanum, (B'ba 140 cs., (Ch.) 73
Opium (B'oay), 14
Orris (It.), 67 b 67 pkgs.
Rhubarb (Ch.), 20
Sarsaparilla (Denm 13 bls.
Stavesacre (Triest 32 bgs.
Storax (Fr.), 5 b
Turmeric, (N.Y.) 3 pkgs., (B'bay) 6

Oils, essential, not d scribed, (Germ.) cs., (B'bay) 3 (Sic.) 141 cs. 22 × cs. 67 pkgs., (U.S 346 cs.; anise (Ch 250 cs.; cassia (Ch 50 cs.; geraniu (Fr.), 12 cs.; lemo grass (Cochin), drms.; peppermin (U.S.), 78 cs.; sa dalwood (B'bay), 2 cs.; turpenti (Swe.), 91 cs. 19 br

Liverpool
(February 16 to 21)

Chemical products,e
Alum. sulph. (Holl 50 bgs.
Argol (Fr.), 354 bg
Magnesite (Hal N.S.), 1,040 bgs.
Magnes. chlor (Holl 35 cks.
Quinine (Jv.), 413 c
Soda bichroma (U.S.), 88 cks.
Tartar (Fr.), 32 ck
Zinc oxide (U.S 230 brls.

Drugs, crude, etc roots (Zanzib 199 bls.
Aloes (Curaçao 140 cs.
Cassia fist. (Holl.), bskts.
Cinchona (Jv.), 20 bgs. 596 bls.
Cubebs (Holl.), 8 bskts.
Opium (Tky.), 93 c
Quinine (Fr.), 45
Senna (P. Sudan), 1

Oils, essential, not d scribed (Holl.), cks.; cananga (Holl 15 drms.; citronell (Holl.), 2 drms.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Outlook in the Drug Trade ?

Sir,—The experience of "Trade Union" (*C. & D.*, January 3, p. 86) is doubtless the same as that of many other assistants at the present moment, and yet on the opposite page of the same number we have the information given us by "Jay Mack" that chemists' businesses are from 200 to 400 per cent. better off than they were before. This, is, of course, very gratifying both from the proprietor's point of view and also from that of the organisers of our assistants' unions, and it will be a good point when they get their plans definitely laid for the demand for a minimum wage. I am not familiar with "Jay Mack's" part of the country, but from his letters I gather that he is in a big way of business and probably employs a staff of assistants; will he give us the percentage increases in their salaries compared to pre-war payments? We cannot all of us be proprietors, though most of us would like to be; and if the employé cannot get on without the employer, neither can the owner run his business without the paid worker, and a little more recognition of this fact would tend to better harmony all round. Personally I am in favour of a minimum wage with an agreed percentage or bonus on profits, as this system gives the worker a direct incentive to do his best, knowing that a good year brings its own reward, and also it induces a mutual helpfulness which aids a small business so much in place of the veiled enmity which so frequently exists between capital and labour.

Yours, etc.,
Mutuality. (156/8.)

Sir,—I should very much like to know the minds of those directly or indirectly interested in "the future of pharmacy" in this country on the outlook for the unqualified men in and out of college. One has noticed in recent issues of the *C. & D.* Supplements that the demand for assistants does not compare favourably with the supply. Meanwhile, there are roughly 1,300 students preparing for Qualifying examinations and fully as many again patiently waiting for vacancies and Government grants. It is perfectly obvious that in the next year three-parts of these men, who will presumably have passed their examination, must be absorbed into the practice of pharmacy to avoid unemployment. Let it be understood that an employer who is getting on very well with his unqualified assistants is not going to take on qualified men in their places, should the former go to college. Such is the case now when qualified men are asking from 90s. What are we to expect when the union rates come into force in the near future? Has the Pharmaceutical Society any idea of the number of men employed in pharmacy or the number really required at present? And does it intend to let men qualify *ad libitum*, whether or not there are positions vacant for them? One is confident that large numbers of demobilised men, who had ambitions prior to the war, are despairing of their realisation, owing to the serious outlook and the seeming apathy on the part of the aforesaid Society.

Yours faithfully,
Micawber. (142/34.)

Sir,—It is said that there will be 2,000 entrants for the July Qualifying examination. This looks as if Mr. Private Chemist and Mr. Company Chemist are in for a good thing in the way of cheap labour unless our union "gets a move on" quickly. But isn't it time to warn others from entering the business, unless they have sufficient capital to trade on their own account? The life of the average non-proprietor consists in building up huge businesses and making big fortunes for somebody else. For himself, a continual struggle with poverty; for his children, cheap education; for his wife, nothing at all in the way of domestic help.

Yours, etc.,
Anon. (168/65).

Sir,—Is it not time that pharmacists and corporate bodies carrying on the business of a chemist and druggist should dispense with their temporary female staffs? In answer to a recent advertisement for a manager I was greatly surprised to receive forty-five applications from ex-Army men, and some of the salaries asked for were but slightly more than pre-war standard, clearly showing that the applicants were quite aware of the keen competition for berths, and I am certain, judging from local conditions, that these well-deserving men are being frozen out to a great extent by cheap "temporary" female labour having been retained longer than is necessary. Without going into the matter of the relative competence and value to the employer of the two classes of labour, it seems thankless treatment to mete out to the "demobbed" men, the majority of whom have undergone hardship and discomfort (to put it mildly) in order that our businesses should remain intact.

Yours faithfully,
Sheffield. A. R. Powell.

More Burdens.

Sir,—Mr. Rowsell, at Dewsbury, informed the Chemists' Association there (*C. & D.*, February 21, p. 66) that the 1½ per cent. surcharge was to be withdrawn on March 1, and, instead, a charge of 2 per cent. added to all goods which do not show 12½ per cent. profit to the wholesaler. This is a case of the swings and the roundabouts. All retailers are aware that expenses have increased in wholesale businesses as well as in their own, but the whole point of the protest against the surcharge is that it is added to goods the maximum selling price of which is fixed by law, and the retailer has to pay the total advance out of his already admittedly insufficient profit. The policy of many patent-medicine proprietors has been to squeeze the retailer—"it is our advertising that sells"; and, unfortunately for us, the susceptibility of a large class of the public to cleverly worded advertisements helps them in their view; but if the public insists on having these goods, then they should be amenable to the law of supply and demand, and retail at a figure which will be a reasonable return to all concerned, especially in the case of goods that are not necessities, like foodstuffs or wearing apparel.

Yours faithfully,
Anti-squeeze. (195/39.)

Hygiene in the Time of Moses.

Sir,—The suggestion made by Dr. James Cantlie about the tumours or "emerods" from which the Philistines are said, in I. Samuel v. and vi., to have suffered, is not new, for I remember coming across it at least twenty years ago in a work by Sir Patrick Manson. The philology of the chapters does not make it possible to reach any definite conclusion as to whether it is true or not. Except in one place the word in the original is *'aphâlim*, the plural of Ophel, the height mentioned in Nehemiah xi. 21 as the home of the Nethinim. *Ophel* means that which is raised or puffed up, hence, a boil or swelling. There is nothing in the Hebrew text to show where upon the body these swellings appeared, the statement that they were "in their secret parts" being a gratuitous addition by the English translators. The Masorah, however, substitutes for *'aphâlim* the word *tehhorim*, "piles," in every case in which it occurs, and its reading has been strictly followed by the A.V. The matter is further complicated by the fact that in the eleventh verse of chapter vi. it is distinctly stated that the Philistines placed in the coffer which accompanied the ark "models of their piles" (*tsalmêi tehhorêikhem*). But the story has evidently been compiled from various accounts, Elohistic and Jehovistic, which did not coalesce into a consistent whole. When we come to the mice we are on surer ground, for recent excavations have thrown a good deal of unexpected light upon the subject. We now know that Dagon was neither a fish-god nor

exclusively Philistine. His name appears in the Tell-el-Amarna letters written during the eighteenth Egyptian dynasty, long prior to the Philistine invasion of Palestine, which took place during the reign of Rameses III. of the twentieth dynasty. Originally a sky-god, associated with Anu, he later became the Canaanitish protector of crops and agriculture, symbolised by an ear of wheat (*dâgân*). As such "the mice that mar the land" were, of course, his natural enemies.—Yours truly,

L. (143/46.)

The Coming Council Election.

Sir,—I understand that several assistant candidates are being nominated for the forthcoming election of the Pharmaceutical Society. It seems to me that there may be overlapping and loss of energy, as well as, possibly, of position. May I ask that prospective candidates would communicate with me so that I could arrange a meeting to provide joint and united action on two or three suitable candidates? Herbert Skinner.

16 Priory Gardens, Highgate, N. 6.

Homœopathy.

Sir,—We did not anticipate that we should further encroach upon your space in connection with this controversy, but the remarks of "Xrayser II." in your issue of February 28 have rendered it necessary. He says we put forth the argument of the large number of homœopathic medical men in America as proof of the advance of homœopathy in this country; but we do not, as we stated in our letter of February 7 that we drew a line of distinction between the kind of advance there and here, and then we go on to explain the reasons. No further comment having appeared in answer to our various points in the letter of February 21, we are quite content to let your readers judge for themselves as to the *pros* and *cons*. Before leaving the subject, however, we should like to refer to the statement of "Xrayser II." (February 28) that "Medicus" claims to have found how the high dilutions act. "Medicus" admits that he does not know how they act, but claims to know that they *do* act, and so did the late Dr. Burnett in his work on "Natrum Muriaticum as proof of the doctrine of drug dynamisation," when he says: "What it is I do not know, what you call it I do not care"; but the cases recorded in his book are convincing.

Yours faithfully,

Leath & Ross.

Medicinal Liquid Paraffin.

Sir,—Your correspondent "Russanol" (*C. & D.*, February 28, p. 107) was clearly handling an impure oil if his customers complained of its nauseating properties. In all my experience of petroleum products—which is considerable—I have never met with one case in which a complaint of the nature indicated by "Russanol" has been made. Whether or not the liquid paraffin in question emanated from a Russian or any other source, your correspondent emphatically agrees with me that pure liquid paraffin is a definite chemical compound, and therefore its palatability, etc., depend on the rigorous care exercised in the refining processes. I repeat: the source of medicinal petroleum is a matter of indifference so long as the foregoing precautions are taken, and, as a proof of this, medicinal petroleum now on the market from wells on the U.S. Pacific Coast has not even been equalled in purity and therapeutic value by any other oil. If "Russanol" will do me the honour of attending one of my future lectures I shall be pleased to discuss this matter in the presence of an audience of pharmacists.

S. Jamieson.

The Supply of Ergot to Midwives.

Sir,—With regard to the point raised by "E. S." (*C. & D.*, February 28, p. 108) regarding the supply of ext. ergot. liq. to a midwife, I wish to state that we supply this preparation to a nursing institution on the order of the hon. secretary. I personally know the institution and the hon. secretary, and each time we supply she signs the poison-register in the usual way. It is supplied in 4-oz. lots. I never fail to remark upon its powerful properties, and suggest its use and care should be under qualified supervision. I supplied 4 oz. only this week, and in conversation with the hon. secretary I found that it is administered usually under the direction of the doctor, but occasionally the nurse administers it on her own responsibility, having the doctor's sanction to do so. I think that if one knows the preparation will be under proper care, and the person who uses it recognises its potent character and knows the dose and, of course, fulfils the requirements of the poison-register, there is no reason why it should be refused. If it was to be supplied to a midwife I should require very full evidence that the above requirements were fulfilled, and, of course, a doctor's certificate would remove all responsibility.

Yours faithfully,

Wolverhampton. Harold V. Hibbett.

Sir,—I cannot see that a doctor has any affair in the sale of poisons by a chemist, nor that a midwife should have imposed on her any difficulty beyond the requirements of the Pharmacy Acts in obtaining her legitimate supplies. Yours, etc.,

Portsmouth. Thos. Postlethwaite.

Insurance Dispensing Problems.

Sir,—The dispensing problems presented by Mr. Gilmour to the North British Branch (*C. & D.*, February 28, p. 94) apply equally well to the experiences of chemists south of the Border. I have at various times met with many of the same difficulties—in fact, some of them so frequently that I have adopted a regular method of procedure which has apparently satisfied the Pricing Bureau. Such items as ice, brandy, and soda-water I certainly should not supply; cases where the amount of mucilage or powdered tragacanth ordered is excessive are fairly frequent, and I use sufficient to make a presentable mixture and note the fact on the script. But in this connection I believe that if a doctor orders a drug which requires suspension without ordering a suspending agent and the chemist adds the necessary amount, he is not paid for it although he notifies it. With regard to syrup of orange, I have had a script for syr. aurant. ad ℥xij.; I dispensed ℥ij. and aq. ad ℥xij., marking the script accordingly. For lint 12 in. I cut off 12 in. from the pound roll, as the average width is 18 in. and it is priced by weight; but for oiled silk, which is so much wider, I give 12 in. by 12 in. Where a square yard of lint is ordered I supply an equivalent quantity of the ordinary width, informing the customer that it is the widest obtainable. For ung. pasta lassar I dispense pasta zinci co.; for ext. hamamel. liq. when ordered *per se* the liq. hamamelidis; and for lin. saponis co., lin. saponis is given, as these items are what are understood to be required in this locality. Also for chlorodyne the doctors here expect the '85 B.P., and order it as such to distinguish it from the green 1914 preparation; for carron oil I should supply linseed oil and lime-water. With regard to the script for atropine and cocaine drops I should have returned this to the prescriber to fill in the quantities before dispensing. From my experience the Pricing Bureau allows the pharmacist a reasonable latitude in translating ambiguous prescriptions, providing that he does his best to supply the patient with the article intended, and also if he fully notes on the script what he has done in the matter.

Yours truly,

Ambiguous. (271/6.)

The Greek in Pharmacy.

Sir,—As one who had several years' experience of pharmacy in the Near East in pre-war days, I can fully endorse the remarks of "Captain, R.A.M.C." with regard to the Greek in pharmacy (*C. & D.*, February 28, p. 70). At home here it is always the Jew who is referred to as the man who will get the best of any deal, but whoever started the idea had certainly never been to the Sunny South and tried to bargain with a Greek. It is, of course, necessary to be familiar with more than one language to do business, and I should put them in the order of English, Arabic, Italian, and French, all of which we used daily; but it does not take one long to pick up sufficient for one's own profession, especially to

e pharmacist, whose Latin is a good groundwork for e French and Italian tongues at any rate. Arabic was known to me when I first went out, but by dint of a tle application, and constantly speaking to boys and tive dispensers, I soon acquired quite a reasonable ency. Cigarette smoking at work is not regarded as t of place, as it is done in banks, post-offices, and, fact, nearly everywhere; and the practice of sitting tside the counter is common, as most people sit outde their houses and shops on hot nights, and, further, in England a man goes to his club or his pub. in the ening to discuss events, so there the pharmacy is the cognised resort where they assemble to talk over politics, andal, etc. It is not uncommon to see "British Disensary" painted over a shop, the only British part about being the name, and if you enter you will probably nd the ubiquitous Greek in possession.

Yours faithfully,

Eastern. (202/38.)

Official Doses.

Sir,—Xrayser II. is quite correct when he says that any doctors habitually disregard official doses (*C. & D.*, anuary 3, p. 71), and this practice very often places e pharmacist in an awkward dilemma. I have disensed, after protest, such items as tablespoonful doses f syrup. hypophos. co. and liquid extract of ergot; in the rst case nothing happened, in the second the patient ccumbed, whether to the disease or the dose I cannot y, but I have my own opinion. On another occasion had a script for pills each containing arsenious acid r. $\frac{1}{12}$, three times a day; and on telephoning to the prescriber he laughed at me; so they were made up as written nd sent out. In the middle of the night the doctor was ent for suddenly as the patient had developed diarrhœa nd sickness. Then I laughed. The only person who ould not see anything humorous about it was the nfortunate patient. One customer regularly had 25-grain oses of potassium iodide, afterwards increased to 30 gr., lthough in this case the condition doubtless called for eroic measures; and bromides are frequently given in ery large doses, as much as two or three times the B.P. gure. At the same time I should always communicate ith the doctor, if possible, in the case of a poison being rescribed in excess of the B.P. dose; even though I were nubbed, I should feel I had done my duty, and for one octor who knew what he was giving there are ninetyine who would not. It should be the rule, as it is in ome continental countries, for a medical man, when rdering an unusual dose, to notify it by underlining or nitialling the quantity. Yours faithfully,

Overdose. (141/60.)

A Reminiscence.

Sir,—Being one who likes to ruminate and "reminisce," our retrospect on the Chemists' Ball at Willis's Rooms n 1870 interests me. Perhaps the following incidents nay interest some of your readers. Sitting out a dance n the early hours of the morning, I was requested by hat *doyen* of ambassadorial commerce, the late Mr. Tom Martin, to join a small party in walking up and down he middle of the ballroom so as to maintain the circuitous route of the dancers. Scarcely had I commenced ny duties than I beheld a genial examiner (before whom expected shortly to appear in my final exam.) sailing long with his partner in my direction in an attempt to evade going the full length of the course by crossing over. Like a flash I thought "now is my chance," and out went ny temporary arm of the law; the genial examiner was repulsed, and after a few more steps both he and his partner measured the floor. We all enjoyed the fun mmensely, and probably the genial examiner most of all; I can recall his laugh now. When I got home after the ball t was about six o'clock A.M., and on going up to bed for a short rest before business I met that fine old chemist, ny first master in London, Mr. John Lloyd Bullock, F.I.C., etc., coming down to his laboratory to start work. How many of us do that now?

Yours faithfully,

Terpsichorean. (11/74.)

Legal Queries.

V. D. C. (198/69).—Registration of Trade-marks.—See *C. & D. Diary* 1920.

E. T. S. (167/22).—Your proposed use of a brand name for a "known, admitted, and approved" remedy would, in our opinion, be a claim to proprietary rights, and the medicine would require a medicine stamp.

J. R. N. (18/8).—(1) Black wash contains oxide of mercury owing to the reaction of the lime-water and calomel, hence the sale is governed by the conditions of Part II. of the Schedule of the Poisons and Pharmacy Act, 1908. (2) The provisions of the Shops Act as to the weekly half-holiday do not apply to the sale of confectionery and tobacco, but a notice must be displayed in the case of mixed shops, as is done in the case of medicines and surgical appliances.

C. L. (194/2).—The statement made in The Chemist and Druggist, February 21, p. 75, regarding the use of the title "chemist and druggist" applied to the particular inquirer and was not referring to limited companies. As a limited company carrying on the business of a chemist and druggist you need to conform to the provisions of Section 5 (4), (*a*) and (*b*) of the Poisons and Pharmacy Act, 1908. These require a registered chemist to be the *bona-fide* manager in each shop, and his certificate of qualification to be exhibited conspicuously, and he must be registered with the Pharmaceutical Society as the superintendent of the business. Such a company may use the title "chemist and druggist" if a director is a registered chemist and druggist and superintends the business so far as it relates to the sale of poisons, etc. We trust that this has made the position clear.

H. S. (177/5) sends particulars of a sarsaparilla drink which a customer of his has been selling at 1*d.* and 2*d.* per glass. The concentrated mixture is sent to the customer, who lets it down with water and sweetens or bitters it preparatory to sale. The Customs officer informs the customer that the drink is liable to duty, and he asks if this is so. [This drink is clearly a table-water, and duty is chargeable on table-water which comes within the definition given by the Finance (New Duties) Act, 1916. This definition is: "Any aërated waters and any beverages sold or kept for sale in bottles, which include for this purpose casks or other corked or closed receptacles other than (*a*) any liquor for the retail sale of which an Excise licence is required, and (*b*) syrups or other liquors intended to be consumed only in a diluted form." If, therefore, the drink is sold or kept for sale in bottles or other closed receptacles, as stated above, it is liable to duty.]

G. T. K. (194/68) is tenant of a shop under a lease which contains a clause to the effect that if "by reason of fire or other inevitable accident" damage is done to the premises only a proportionate amount of the rent shall be paid during the period of reinstatement. In January 1917 a military lorry completely destroyed the shop front. A claim against the War Office was rejected by that Department, and, upon legal advice, was not pressed. The shop front was not rebuilt until fourteen months later, and "G. T. K." claims an allowance, by way of deduction from the rent, under the clause in his lease, in respect of the period during which the premises were in a damaged condition. This claim is resisted by the landlord, who denies that the damage resulted from an "inevitable" accident. The property is about to change hands; how should "G. T. K." proceed? [It is obvious that the damage to the shop was "inevitable" so far as "G. T. K." and his landlord are concerned, and we consider that under the clause in the lease some reduction in the rent can be claimed by "G. T. K." It is impossible for us to express any opinion as to the amount of allowance which "G. T. K." should demand; but we suggest that he should decide upon a reasonably moderate amount and deduct it from his next payment of rent. The case is essentially one in which "G. T. K." should secure the services of a solicitor if no compromise can be effected.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Embroc. (194/57).—White Liniment Without Eggs.—See *C. & D.* Diary, 1919, p. 87, for formula of the type required.

W. M. B. (192/24).—Cinnamon and Quinine.—See *C. & D.* Diary, 1920, p. 271.

Statim (189/31).—Furniture Worms.—See *C. & D.*, September 6, 1919, p. 72.

M. N. (198/30).—The Pet-dog that staggers and falls as if in pain is suffering from kidney disease, and possibly this is structural and incurable. The treatment consists of a mild purgative, and for a few days small and repeated doses of sp. æther, nit., then a mixture containing in each dose potass. iod. gr. vj. and ext. ergot. liq. ♏vj., three times daily. Clip off the hair from the loins and seat of kidneys and apply a belladonna plaster or some belladonna preparation. A linseed poultice smeared with ext. belladonna may give relief.

A. B. (183/7).—Herbal Smoking-mixture.—

Coltsfoot	8 lb.
Eyebright	1 lb.
Thyme	1 lb.
Hyssop	1 lb.
Rosemary	1 lb.
Lavender flowers	2 lb.
Rose-petals	8 oz.

Mix.

I. H. (165/21).—The formulas to which you refer were given in the *C. & D.*, December 6, 1919. It is too soon to repeat these, but the number is probably still obtainable from the publisher.

W. G. M. (192/65).—Boot-polish.—There is no book published on the manufacture of boot-polish, so far as we are aware. The formula in which paraffin wax is employed was given in the *C. & D.*, November 16, 1918, p. 56. Other formulas were given on September 14, 1918, p. 52, and November 30, 1918, p. 52.

E. H. J. (202/50).—Ammoniated Quinine Capsules.—The following is from "Pharmaceutical Formulas":

Capsulæ Quininæ Ammon. (Squire.)

Quinine sulphate	60 gr.
Ammonium carbonate (powdered finely)	100 gr.

Soft and liquid paraffins, of each a sufficiency to make a thin paste.
Fill 100 capsules.

Each capsule represents tr. quininæ ammoniat. ʒss.

P. L. (Paris) (197/66).—Formamint Lozenges.—The word "Formamint" is not now a trade-mark in the United Kingdom, having been removed from the Register of Trade-marks in October 1916. Some claim was made by the German proprietors that Formamint was prepared according to patent 2682/06, which is for "a chemical combination of five molecules of formic aldehyde with one molecule of sugar of milk," this being alleged to produce an odourless combination. Formamint tablets are made in this country from formulas like the following:

Paraform	4 per cent.
Sugar of milk	3 per cent.
Citric acid	2 per cent.
Sugar	a sufficiency.
Flavouring	a sufficiency.

E. C. C. (196/45).—Cinematograph Theatre Perfume.—See *C. & D.*, March 1, 1919, p. 72.

S. J. N. (174/2).—We cannot identify the substance, supposed to be a fertiliser, that you send.

P. H. (167/21).—(1) Baking Powder.—The following formulas were given in a Local Government Board Report in 1911:

	I.	II.	III.	IV.
Calcium acid phosphate ...	50	37	2	77
Sodium bicarbonate	25	23	1	41
Maize starch, rice flour, or ground rice	25	40	3 to 10	50 to 100

(2) Tomato Sauce.

Tomato pulp	50 gals.
Vinegar	3 gals.
Sugar	15 lb.
Salt	5 lb.
Onion	5 lb.
Garlic	½ lb.
Cayenne	¼ lb.
Bay leaves	½ oz.
Cinnamon	1 oz.

The onion and garlic are cooked in part of the vinegar and added to the other ingredients, the whole being ground to a pulpy condition.

Student (197/37).—Palm Oil and Palm-kernel Oil are both obtained from *Elais Guineensis*. The first-named is obtained from the flesh of the ripe fruit after the kernels have been removed. The fat is lodged in the fleshy fruit capsule, in the cells of which it is contained in lumps. Palm-kernel oil is obtained from the seed albumen of this plant and a few other palms. Owing to technical difficulties, extraction is usually carried out in Europe. We understand that palm-kernel oil is used in the making of margarine, and palm oil for the manufacture of soap, candles, etc.

W. H. W. (160/54).—Dentistry is a good paying profession and is suitable for those having mechanical skill. Particulars of the curriculum were given in the *C. & D.*, August 23, 1919.

F. E. P. (26/15).—Perfume for Shampoo Liquid.—As a rule lavender and geranium oils retain their perfume on standing, when used in an alkaline shampoo liquid. Many perfumes are destroyed in such a liquid.

R. L. (172/37).—Irish Pharmaceutical Licence.—The books used in the curriculum for this examination are: *Materia Medica*—British Pharmacopœia, Mitchell Bruce's Manual, and Whitla's "Materia Medica." *Botany*—Edmonds' "Lessons in Elementary Botany" and John's "Flowers of the Field." The last edition of Bruce's "Materia Medica and Therapeutics" was published in 1915. There is no pocket edition of the British Pharmacopœia, but Gadd's "Synopsis of the British Pharmacopœia" (Baillière, 2*s.*) is a useful summary for students.

W. & Co. (196/43).—We think your customer is referring to Iodex, an absorbent iodine preparation made by Menley & James, Ltd

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1870.

Prescribing and Dispensing.

Following in the footsteps of Mr. Wade our correspondent "Chemist" protests against the special recommendation of physicians respecting the choice of dispensers. It is high time that this professional touting for great dispensing houses should be discouraged. There must necessarily be great and small men in pharmacy, just as there are great and small men in medicine, but the Pharmacy Act has insured the proper qualifications of every dispenser. While Mr. Pestle, who has inherited a west-end concern, is overwhelmed with prescriptions, poor Mr. Mortar, who has passed the major, is selling feeding-bottles and hair-oil in his suburban pharmacy. Physicians are not justified in assuming that any legally qualified pharmacist is too ignorant or too dishonest to compound the medicines they prescribe.

BATHING MILLINERY

A large Selection of Novelties for the Summer Season of 1920.

BATHING CAPS
NURSING APRONS
PADDLING DRAWERS
SPONGE BAGS
TOILET CASES
WATERPROOF SHEETINGS
WATER WINGS.

Fancy Sateen.

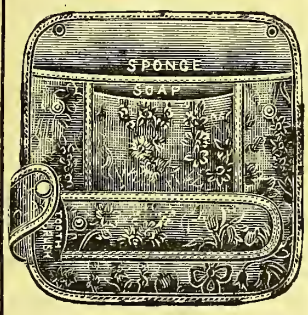
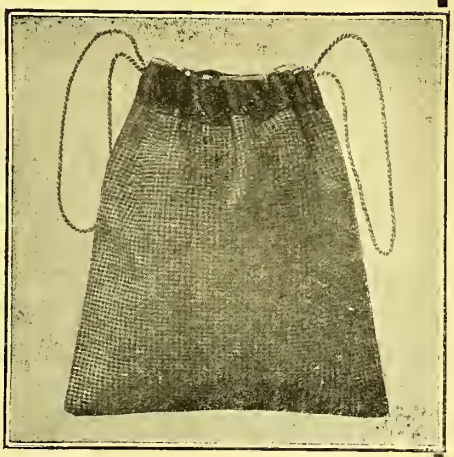
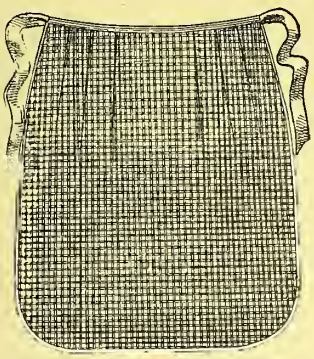


Fig. 127.



Paddling Drawers.

Nursing Aprons.



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Boxes of 50 ,, ,,	....	**7/6**	5/6
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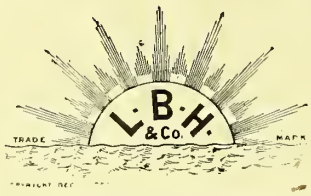

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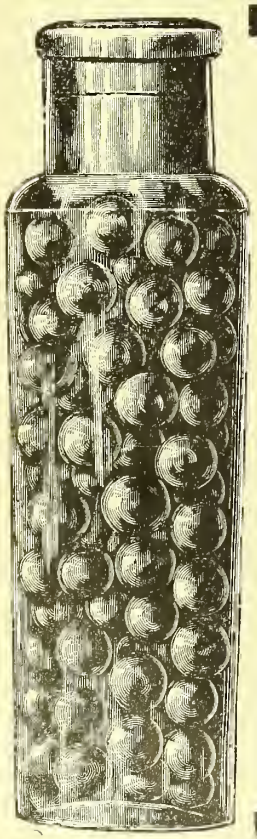

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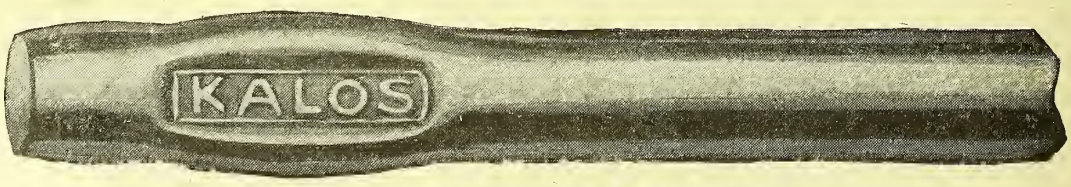

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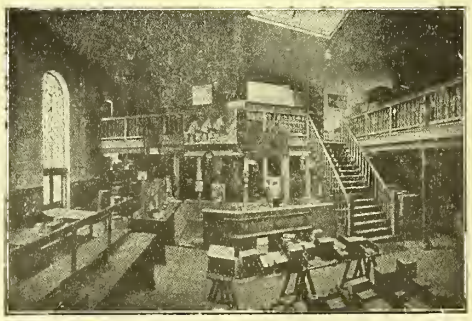

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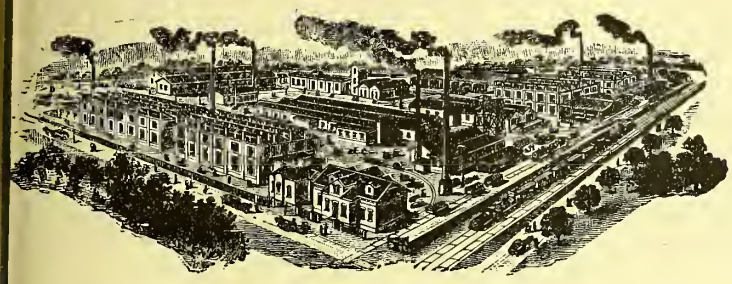

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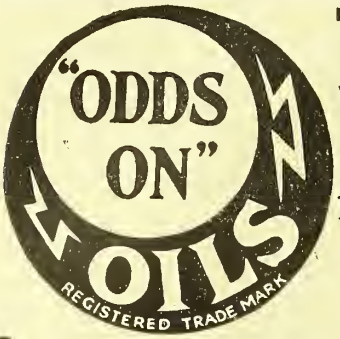

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Your Profits Protected—
Extensively and Persistently Advertised—
The Public are Demanding it.

P.A.T.A.
Retail Prices:
1/3, 3/- & 8/-
Bottles.

Sufferers from RHEUMATISM, SCIATICA, SPRAINS, CHILBLAINS, GOUT, LUMBAGO, NEURALGIA, etc., are being appealed to by an extensive and persistent publicity campaign; they will purchase supplies from YOU if a stock of each size is held available.

Obtainable from all Distributing Houses or Direct.

THE "ODDS ON" SPECIFIC CO. LTD., 36 & 37 Cock Lane, LONDON - E.C. 1.

WRITE TO-DAY FOR PARTICULARS OF

GENEROUS WINDOW-SHOW BONUS TERMS.

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BETTER THAN GLYCERINE FOR WINTER USE.

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A highly satisfactory Product and a good repeater. Minimum Retail **7½d.** per tin. **60/-** per gross with 1 dozen Bonus and **2½%. cash in 30 days.**

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STOCKS ARE HELD BY
S. MAW, SON & SONS, LTD., London.
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THE CONQUEROR OF PAIN!

JABEZ WOLFFE'S

Channel Embrocation

The finest preparation for Rheumatism, Sciatica, Neuritis, Muscular Stiffness, Sprains, Cramp Stings and Bites.

Should be stocked by every Chemist.

Prices: **1/3, 3/-, 5/-** per bottle.

Trade terms: ***25%*** *& carriage paid on orders of* ***£3*** *& upwards.*

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Agents required for certain areas.

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CARRIAGE PAID BONUS ORDER.

	Costs	Sells for
6 doz. 1/3 @ 11/6	£3 9 0	£4 10 0
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	£3 4 0	
BONUS—1 doz. Free...		0 15 0
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Sells for ...	£5 5 0
Costs... ...	3 4 0
Profit	£2 1 0

= 64%

ATTRACTIVE SHOWCASES, WINDOW BILLS, CARDS and FREE SAMPLES.

MAURICE SMITH & CO., LTD.
Manufacturing Chemists, Kidderminster.

HAVE YOU TRIED LYSOL?

(GADD)

Only the purest Cresylic Acid used.

GUARANTEED SOLUBLE

PRICES (P.A.T.A.)

4-oz.	Bottles	8/-	per	doz.	-	-	Retail	1/-
8-oz.	,,	14/-	,,	,,	-	-	,,	1/9
16-oz.	,,	24/-	,,	,,	-	-	,,	3/-
32-oz.	,,	40/-	,,	,,	-	-	,,	5/-

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Drugs and Galenicals Packed Goods

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Messrs. Flu-Mal Ltd. believe it to be an essential factor in the promotion of sales. However good an article may be, the public need telling about it. Messrs. Flu-Mal have already spent many thousands in advertising to the general public, and you have doubtless already been repeatedly asked for "FLU-MAL."

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Their preparation is a preventive of Influenza, Malaria and kindred complaints, and the public are being told repeatedly of the best method of combating influenza.

There is an excellent profit in selling "FLU-MAL," apart from which you can be certain that you are handing your customers a preparation which is a real preventive and certain cure for Influenza, heavy colds, malaria and kindred diseases.

"FLU-MAL" IS A PROVED REMEDY, AND HUNDREDS OF TESTIMONIALS HAVE BEEN RECEIVED.

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Write for particulars to—
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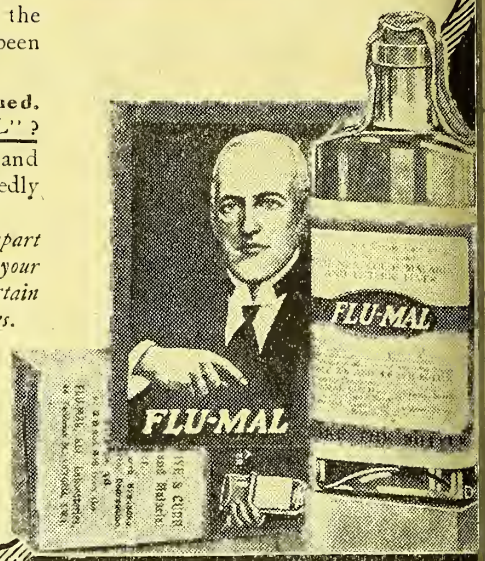

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COMFORTINE

has for Forty Years been the Best & Safest Infants' Preservative.

COMFORTINE contains no Opiates or Dangerous Drugs whatever.

During teething it is a real Baby's friend.

PREPARED BY
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Fixed Minimum Price: 1/3 PER BOTTLE.

GETS-IT
(The World-Famous Corn Remover)

"Gets-It" is a liquid which dries at once when applied to corns or callus with the glass applicator that accompanies each bottle. Stops pain at once and soon loosens the corn or callus so that it can be lifted right off.

Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

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For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

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ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

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RE-EDUCATION OF THE INTESTINE.

Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.

Price **5/-** per box.

GLOBÉOL

POWERFUL BLOOD TONIC.

Anæmia, Nervous Exhaustion, General Debility, Tuberculosis Convalescence, etc.

Price **5/-** per bottle.

PAGÉOL

POWERFUL URINARY ANTISEPTIC.

Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, etc. etc.

Price **5/-** and **11/-** per box.

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Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.

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POWERFUL URIC ACID SOLVENT.

Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.

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New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price **11/-** per bottle.

SINUBÉRASE

SCIENTIFIC PREPARATION OF LACTIC FERMENTS.

Indicated in Intestinal Disorders, Dysentery, Diarrhœa Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc., etc.

Price **5/-** per bottle.

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Metrorrhagia, Dysmenorrhœa and Lactation, Pains, etc. etc.

Price **5/-** and **11/-** per bottle.

GYRALDOSE.

Antiseptic for local Gynæcological use.

Price **4/-** per box (powder)
" **5/-** " (tablets)

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SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

Price **11/-** per bottle.

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Additional 5% on £2 : 0 : 0 orders, CARRIAGE PAID, cash with order, from your wholesale house or direct from the

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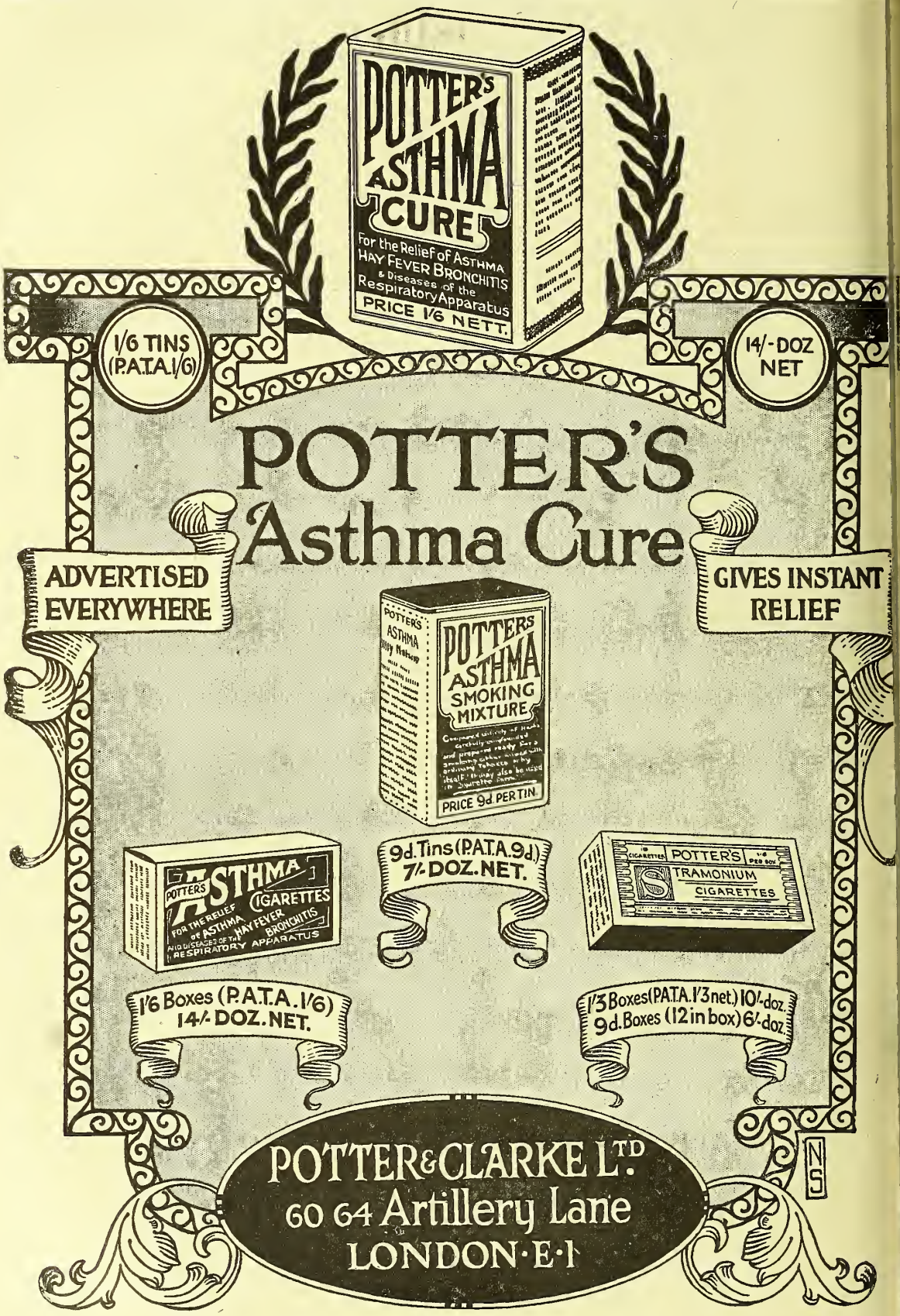

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Ambrine is the *Only Authorised Preparation* of Barthe de Sandfort. We are compelled to state this, as there are various imitations.

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SHOW THESE ON YOUR COUNTER, THE SALE IS CERTAIN.

Special Visit to Military Hospitals in France.

"Here we saw some wonderful cases of burns treated with Ambrine; the effect seems to be practically to provide the patient with a new skin, to say nothing of a fresh complexion."
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PURE OXIDE OF TIN AND TIN METAL

STANNOXYL

Treatment of Staphylococcal Affections.

(An Oxide of Tin and Tin Metal Free from Lead!)

A Scientific production the value of which has been studied very closely. The effect is very prompt; from the second day of treatment the pain is relieved.

In the majority of cases definite results are obtained within five or six days; it is seldom necessary to take the full ten days' treatment, and relapses are unknown.

FULL PARTICULARS ON APPLICATION.

GÉRAUDEL'S PASTILLES.

THE

Anglo-French Drug Co., Ltd.,

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Sole Wholesale Agents

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Géraudel's Pastilles

have placed them on the

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Wholesale Price, 18/- per doz.

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VALERIANATE

"Gabail"

ODOURLESS. TASTELESS.

Each 100 grammes of Valerianate "Gabail" contains:—

Extract of Valerian (French Codex) ...	10 grms.
Acid Valerianic	3 ,,
Ammonium Carbonate	q.s.

Whilst possessing the full medicinal value of VALERIAN the odour is entirely suppressed.

In bottles containing 125 c.c. per bottle **3/4**
,, ,, ,, 250 c.c. ,, ,, **6/-**
,, ,, ,, 500 c.c. ,, ,, **10/6**

Dose:—One teaspoonful.

ELIXIR BROMO-VALERIANATE "GABAIL"

In bottles containing 210 c.c. per bottle **3/9**

Dose:—One tablespoonful.

FREE SAMPLES ON APPLICATION.

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ICE-REFINED

New Season's NORWEGIAN

COD LIVER OIL

DELIVERY EX STOCK.

Samples and Prices:—HERTZ & CO. Offices: 9 Mincing Lane, E.C.3.
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EUCALYPTUS OIL

B.P. 70/75%

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SAMPLES AND QUOTATIONS FOR WHOLESALE QUANTITIES.

Fine Pharmaceutical and Heavy Chemicals.

PRODUCTIONS IN

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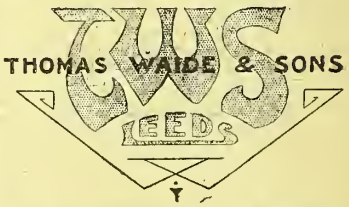
THOMAS WAIDE & SONS



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All Orders and Enquiries receive :: BEST ATTENTION. ::

Send 10/6 for Full Set of Samples to Colonies, which is credited on orders of £10 and upwards.

Thomas Waide & Sons

Chemists' Printers, LEEDS.

Extract of Malt

and

Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE

BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR
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CREAM of TARTAR
CREAM POWDER
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COD LIVER OIL

FROM STOCK.

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110 Cannon Street, LONDON, E.C. 4.

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MALT & COD LIVER OIL

Prepared only from the finest East-Coast Barley, Combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 gross and upwards.

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THE FINEST ON THE MARKET.

Guaranteed Pure STICKS and BLOCK

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HEADLIVER SALT

The Super-Health Salt. Biggest Value. Smartest Tin on Market.
Fine Display Cards—Forceful Press Advertising. On the P.A.T.A. List.

We are now booking orders for Spring delivery. Early application is advisable in view of general shortage.

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Competition for Quality.

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Saccharin Tablets

0·3 gr. 550 Saccharin in each.
FULL STRENGTH.

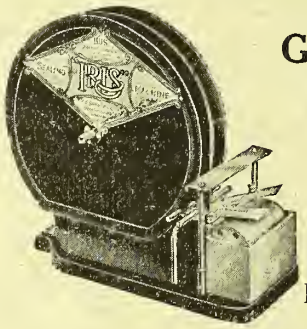
100's in envelopes	... 10/-	doz.
100's in tins	... 11/-	,,
200's in boxes	... 20/-	,,
500's ,,	... 46/-	,,
1000's in tins	... 90/-	,,

Per 50/- lb.

Jules Denoual & Co.

Carlton Works, Asylum Rd.,
LONDON, S.E. 15.

THE "IRIS" SEALING MACHINE FOR GUMMED TAPE



STRONG
SIMPLE
EFFECTIVE

If you are not already using our GUMMED TAPE for your parcels and packets, it is worth your while to send for samples and prices.

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Telephone: City 2577. Telegrams: "Econorast, Cent, London."

From the Heart of the Malvern Hills

BURROW'S MALVERN TABLE WATERS

—STILL AND SPARKLING—

have been proved by analysis time after time to be the purest table waters obtainable. The charm of these waters can be summed up in these two words—purity and softness. Those who are in the habit of drinking hard water full of lime, iron or chalk, would indeed be delighted if they knew they could obtain at a moderate cost a perfectly pure soft water for daily use.

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GOOD! IT'S MASON'S

The Drink for the Masses

Millions of glasses used daily by workers all over the Empire

Please allow us to Sample and Quote—

Citrate Magnesia
Health Salt
Salines
Liver Salt
Blood Salt
Sulph. & Sarsap. Salt
Lemonade Crystals, &c.

NEWBALL & MASON
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The Finest Quality Aerated Waters are made only with the Finest Quality ESSENCES

BOAKE ROBERTS'

Soluble Essences are of the finest quality and being extremely concentrated are most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash, Vanilla

A. Boake, Roberts & Co. Ltd.
Stratford, London, E15.

BISHOP'S
Natural Fruit Saline.

THE BEST SELLER.

This preparation, our latest Saline, made by our special process, without **Sugar** or **Saccharine,** is a unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught which acts as a mild but very thorough aperient, anti-acid and liver stimulant.

Bishop's Natural Fruit Saline is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

The Wholesale price is **20**/- per doz. On £5 lots, discount **10**%, and carriage paid.
The P.A.T.A. Retail Price is **2/3** per bottle.
This ensures a profit of **9d.** per bottle to the chemist.

Prepared only by

ALFRED BISHOP, LIMITED, 48 Spelman Street, LONDON, E. 1.

THE CHEMISTS' APERIENT MINERAL WATER

Aquaperia (Harrogate)

P.A.T.A.
2/6 per doz. allowed for Empty Bottles returned Carriage Paid, to our Factories

Standardised & Bottled by CAMWAL, Ltd., at their Spring at Harrogate.
Supplants Apenta, Hunyadi-Janos and German and Austrian Waters of similar Character

Of all Wholesale Houses, and "CAMWAL" LTD. HARROGATE, MANCHESTER, BIRMINGHAM, BRISTOL, MITCHAM, LONDON, & DEPOTS. Special Export F.O.B. quotations, including packages.

WINCARNIS

Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a licence.

Natural Mineral Waters

WE beg to inform the Trade that we are now regularly receiving consignments of Natural Mineral Waters from the Continent and other parts of the World.

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AIX - LES - BAINS (DEUX REINES)
ALET
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Any Natural Mineral Water not in stock, if procurable, can be imported to special order during the Season.

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A pleasing Mineral Aperient & Tonic.

For sufferers from Rheumatism, Gout, Sciatica, Neuritis, Lumbago, Eczema, Dyspepsia and Constipation.

"EUSALAX" is a careful and scientific combination of the beneficent mineral salts of some of the most famous Continental spas. It is one of the greatest solvents of Uric Acid, a natural stimulant to the liver, kidneys and intestines, and a sure blood purifier.

"EUSALAX" is being extensively advertised and is sure to prove a strong selling line.

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(ESTABLISHED 1860)

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remember the advantages of the "ENERGEN" Brand.

Prescribed by leading Specialists.
Carry a good profit to the Chemist.
Inquiries invited.

Therapeutic Foods Co.
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Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

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We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

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All advertising matter—Booklets, Window Displays Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

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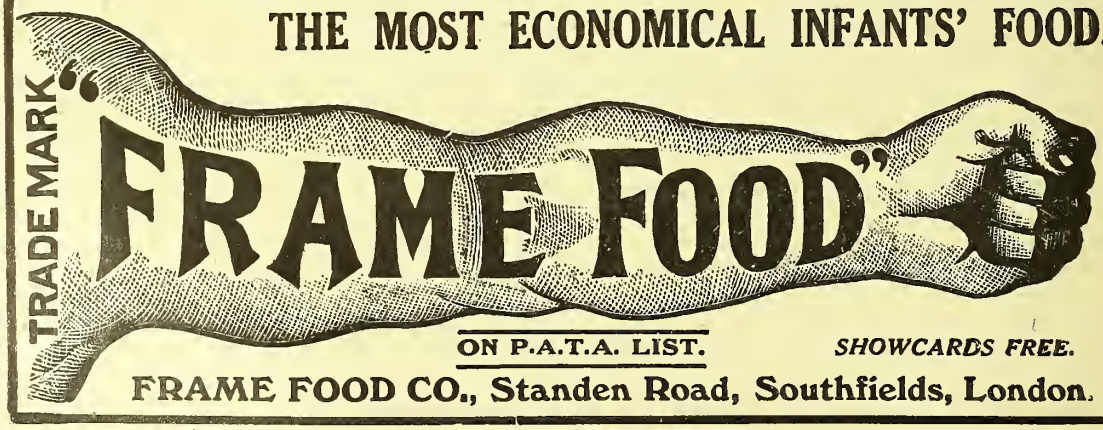

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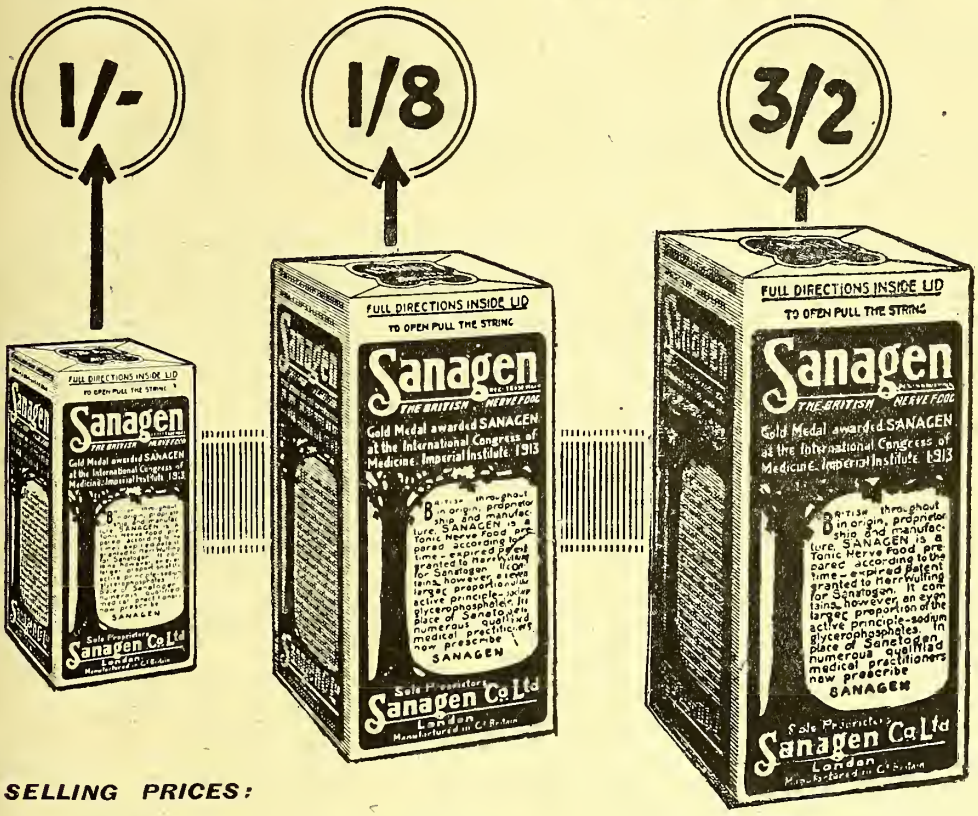

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NERVE FOOD. Trade Mark Regd.

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4-oz. **3/-**	8-oz. **5/-**	16-oz. **9/6**

OF ALL WHOLESALE HOUSES AT 33⅓% DISCOUNT.

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FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

Guaranteed Harmless.

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times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
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IN FACT—ANYTHING.

BLACK FOR INK.

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A combined Stain and Preservative for Wood

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In 1/- Tins.

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The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14 lb. 28 lb. & 56 lb. TINS. (WOODEN CASES.)
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Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

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- Allows 50% profit on outlay.
- In steady demand on merit alone—now being developed by advertising.
- Effective for all kinds of stains on every kind of material.
- Well worth pushing as a carpet cleaner for the Spring cleaning season.

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Wells' Removable Bung Pour

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For emptying Casks without Pump, Tap or Stillage. Applied to and removed from any cask instantly. All waste and mess prevented. More rapid in action than a pump. Will fit any ordinary cask from 20 to 60 gallons.

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Improved HOT WATER BOTTLES

THE 'Ronoleke' British Made. Requires no Washer. Note the Patent Neck and Stopper. Guaranteed never to leak unless wilfully damaged.

High-grade Moulded Red Hot Water Bottles. Superior Quality. Strong and pliable. Each Bottle boxed singly. Made in 2 Sizes.

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Established 1851.

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Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Œsophageal Instruments, Horse Catheters and Cattle Probangs. Wholesale and Export only. *Price List from the Manufacturers.*

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Satisfied users buying shilling cartons from retailers who obtain a good profit on each sale—*that's* why smiles go hand-in hand with Mend a-Tear, which *mends without stitches.*

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Finest stout Rubber Ball and Vulcanite Mount. In Red Velvet and Red Enamel finish. Each in box.

54/- per dozen.

3-dozen lots and upwards,

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(HIGHEST GRADE)

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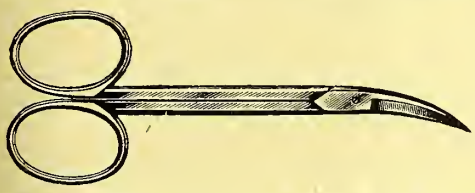

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GLOVES, TEATS, SOOTHERS

and every description of seamless goods.

Inquiries invited. *Samples gladly submitted.*

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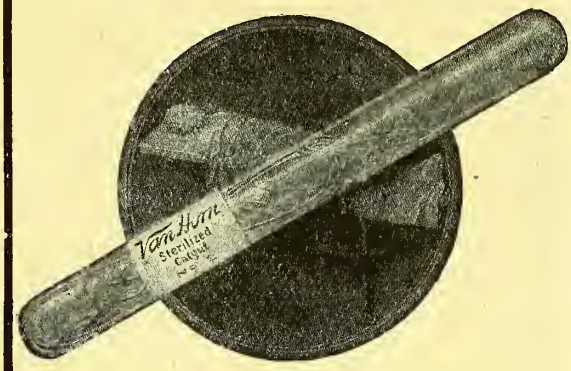
The thought behind the tube—

"the patient on the table"



Not "good enough," but the best from every standpoint—alone assures that degree of "Catgut Safety" demanded when the patient on the table is "one of my own family."

Only on this peculiarly personal basis is

"VAN HORN" CATGUT

supplied to the Profession.

VAN HORN Obstetrical Suture
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K-Y Lubricating Jelly
An Ideal Emollient.

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The Greaseless Anodyne.

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ENSURE PROTECTION

IN THEIR PARTICULAR PROVINCE as they are of the best manufacture, standing all tests, including boiling—are easy for the baby, and possess the characteristics of great clearness. All parts accessible and durable.

SPECIAL DESIGNS FOR SPECIAL HOME AND OVERSEAS MARKETS.

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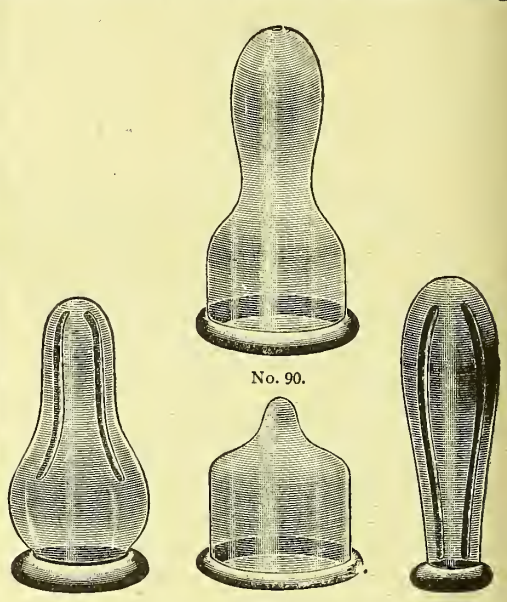

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HANCOCK'S, LTD.
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IMPORTANT

It is not generally known that Corks made of Rubber are to-day 25% cheaper, are more serviceable, reliable, and give greater sealing facilities than any other kind. We specialise for the requirements of the Chemical Trade, and manufacture all standard sizes.

	Drab Ammonia Proof.	Drab Acid Proof.
Prices for 8-oz. Bottles ...	3/3	4/3 per gross
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Other sizes—Prices on Application.

SPECIAL PRICES FOR LARGE QUANTITIES.

We also manufacture BUNGS for ½-gall. and 1-gall. Jars.

RED & BLACK RUBBER CORKS of the Best Quality for Laboratory use.

Inquiries Solicited.

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Manufacturers of all Rubber Specialities for Medical, Chemical & Laboratory use,

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Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

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such as Corns, Bunions, Callouses on the Sole, Flat Foot, Cramped Toes, &c., are increasingly prevalent owing to unaccustomed War Work.

Dr Scholl's Foot Comforts

are the result of years of experience devoted to the treatment of Foot Ailments by Dr. Scholl, and are to-day recognised as the most perfect corrective devices on the Market. They are in constant demand, and all Chemists will find it profitable to stock them.

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THE LIQUID COURT PLASTER

ALL- BRITISH.

Minimum Retail Price	Wholesale Price
1/3	**11/6** PER DOZ.

CARRIAGE PAID ON ORDERS OF 30/- UPWARDS.
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SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

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Lightest and Whitest, also Purest Dense
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The Dye with a Reputation for reliability.
ROYAL COURT HAIR DYE
SEVEN SHADES.
1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.
The only dye giving a natural gloss to the hair.
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THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Over 40 Years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, 1½d. each; Boxes of 13 packets, 1/6.
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FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc. Also Foods for Anæmic, Dyspeptic, Invalid and Aged People and Infants. Highly recommended by Medical Profession.
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Special quotations to large buyers.
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Cachets. All sizes, plain and embossed. Orders accepted for coloured & printed
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Medicinal Capsules, Fine Chemicals.

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FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses
Trial size 8d., per post 10½d. Medium, 1/4, per post 1/7; Large, 3/6, per post 4/-
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CACHETS "FINOT"
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With Inscriptions in any desired tint: also Plain or Embossed.
"A distinction all their own."—C. & D
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These Cachets are especially adapted for Headache, Neuralgia and other powders.
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In 17 Sizes, to fit the various types of Cachet Machines

MOTHER WILL BUY IF SHE SEES IT.
of course she will. What mother doesn't always like her kiddies to look their best in health and appearance.
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BEST SHAMPOO FOR CHILDREN
Keeps little heads beautiful and parasite free. Always advertised for you too. Non-poisonous.
LET US SEND YOU AT ONCE.
One 6 doz self-selling carton and 1 doz. Bonus with carrier bags, wrappers, show bills, cards &c. [It won't be your first order!]
4/- PER DOZ. 43% PATA. 6D EACH.
LEIGHTON LABORATORIES 35 GRAYS INN ROAD, W.C.1.

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BETTER THAN A SHAMPOO
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4/- PER DOZ. A 6 dozen decorated carton with one dozen Bonus to your address at once. Carriage Paid. P.A.T.A. EACH 6D. 43% P.A.T.A. PROFIT FOR YOU
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Made from the finest materials obtainable. Guaranteed to retain its efficiency for Six Years. In 2d., 3d., 5d., & 7d. Tubes. Boxed in dozens. Also in Bulk for Carpentry, Joinery and Aeronautical Works, etc., ½-lb., 1-lb., 14-lb., and 28-lb. Tins.
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YOUR WHOLESALER CAN SUPPLY.

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THE MOST ABSORBENT RUBBER SPONGE

Protected Retail Prices.

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In pure tin, pure lead, or lead coated with tin, for rubber solution, artists' colours, tooth pastes and other toilet preparations

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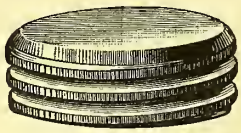
CHEAP, NON-RETURNABLE, COLLAPSIBLE CASES FOR HOME TRADE.



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METAL CLIPS for ends of Tubes and MACHINES for fixing same.
SCREW CAPS, METAL TOP CORKS, etc., etc.

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GLASS TUBES, GLASS BOTTLES
ALUMINIUM & LEAD TUBES

by placing your contracts with us.

Astonishing Low Prices
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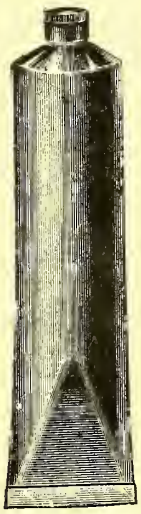

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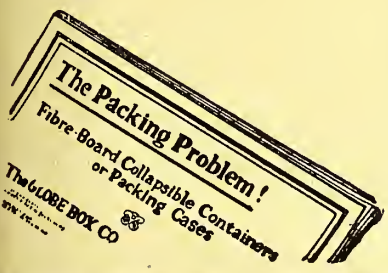

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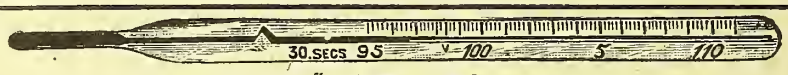

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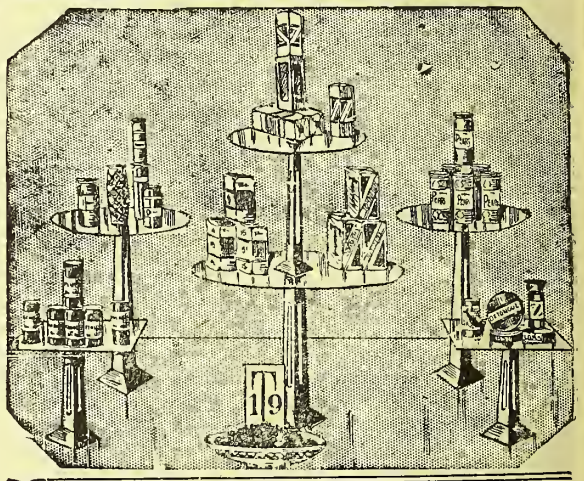

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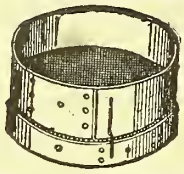

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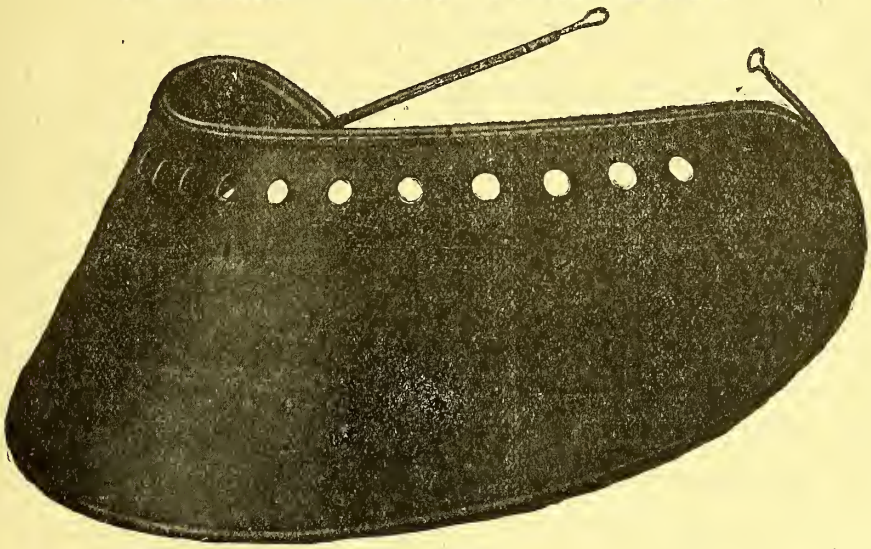

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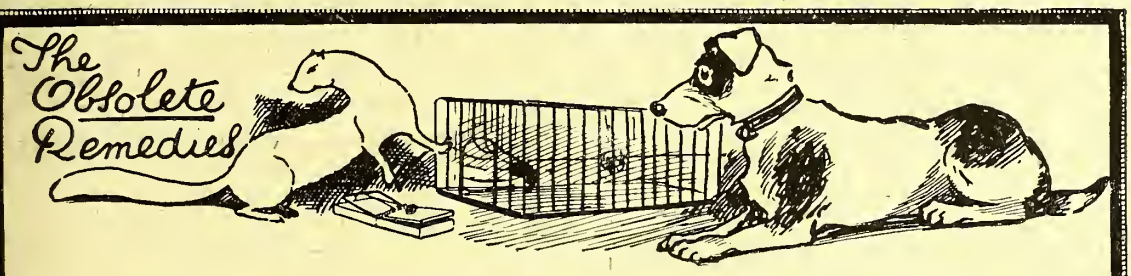

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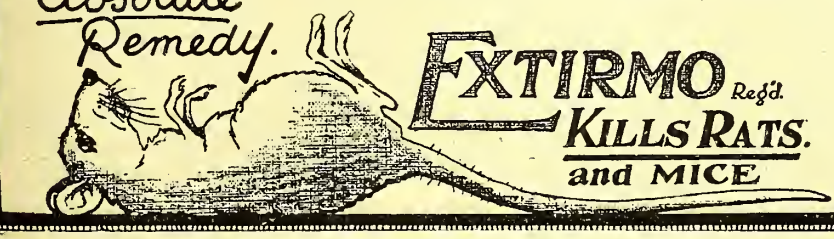

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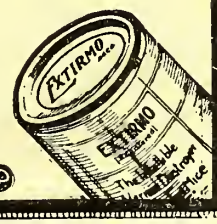

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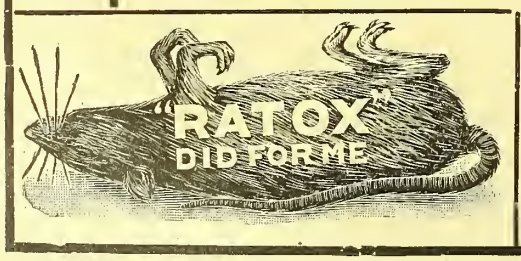

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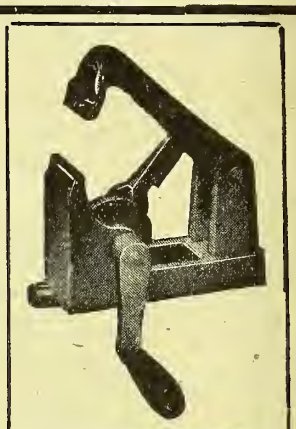

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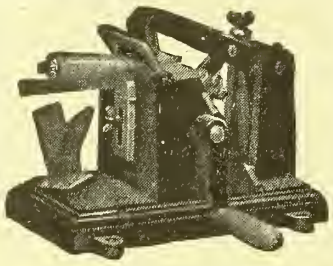

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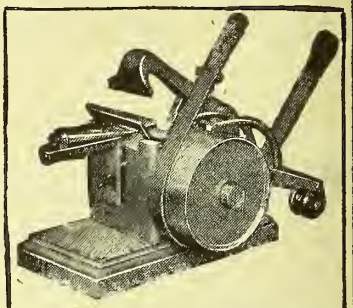

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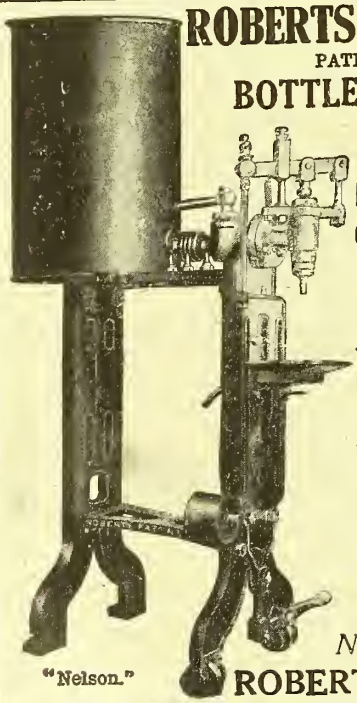

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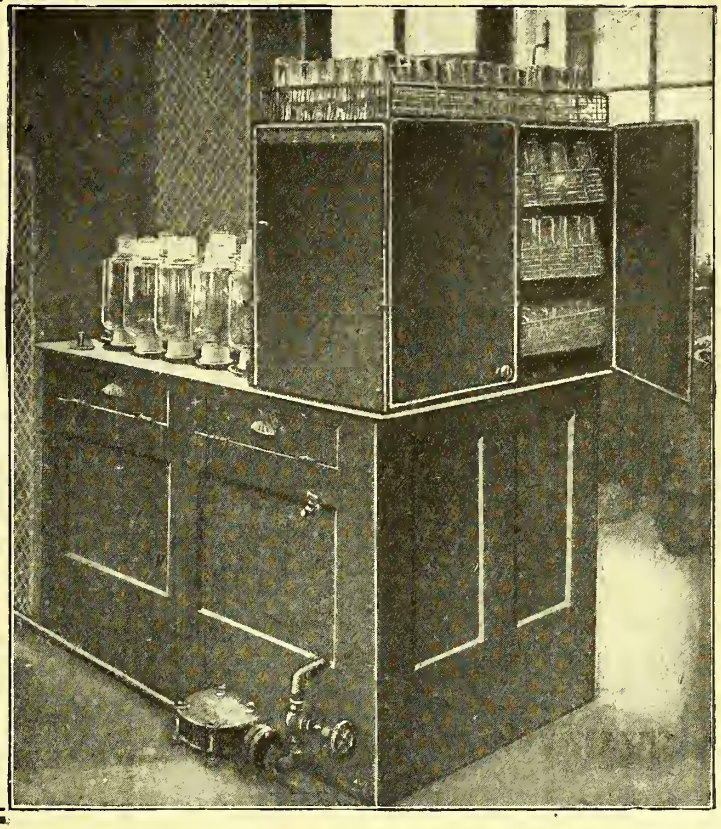

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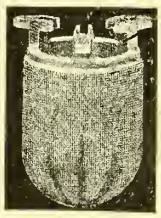
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The Non-Poisonous Liquid Seed Dressing.

For Protecting seed-corn from **ROOKS, WOOD PIGEONS, PHEASANTS.**

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A highly efficient non-Poisonous insecticide in tablet form.

Three times as efficient as soft soap insecticides and better adhesive qualities.

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A Non-Poisonous Powder Weed Killer.

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

MARCH 6, 1920

This Supplement is inserted in every copy of The Chemist & Druggist.

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ll advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph n urgent announcement this may be done, provided the money is telegraphed at the same time.

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Telephone: Central 3617 (3 lines). Telegrams: "Chemicus, Cannon, London" (2 words).]

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

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May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION,

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.—LONDON, S.W.—High-class Retail and Dispensing Business; urns about £6,000 per annum at full prices; well-fitted shop. avily stocked; held on lease; banker's reference required.

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8.—SOUTHERN COUNTY.—Cash Retail Business; returns £60 weekly; large shop, well fitted and stocked; no near opposition; new lease will be granted; price to be arranged.

9.—WEST OF ENGLAND.—High-class Dispensing and Retail Business; returns between £4,000 and £4,500 per annum; *gross profit* 45%; well-fitted shop; large house, with private entrance; price to be arranged.

10.—SOUTH COAST.—Good-class Retail and Dispensing Business; returns £5,000 per annum, at good prices; stock and fixtures estimated at £4,000; further details on application.

11.—MIDLANDS.—General Retail and Dispensing Business; very old-established; returns last week £62 10*s.*; *net profit about* 25%; double-fronted shop; rent £80; held on lease; price £2,500.

12.—STAFFORDSHIRE.—Light Retail Business; returns about £2,500 per annum; books open to investigation; double-fronted shop; low rent; new lease can be obtained; vendor is open to consider a reasonable offer.

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INTON, CAMBS.—Very old-established Retail, Dispensing and General Chemist's Business, with good Agriculture conction; good opening for Dental and Optical work; excellent ing accommodation; rent £30; lease arranged. Apply Parkin Booth, 31 Kimberley House, Holborn Viaduct, E.C.

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We acknowledge that the word "CAMPHYLENE" is y exclusive property, and should only be applied to Disinfecta and other goods produced by you, and we promise that we not in future use that word on or in reference to any goods of your manufacture.

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A WELL-KNOWN firm of Retail Chemists (Private Company) is about to expand into a public limited liability company. A position on the directorate is open to a Retail Chemist who is willing, after investigation, to dispose of his business to the Company. Replies will be acknowledged in due course and treated with the strictest confidence. Apply 199/47, Office of this Paper.

PROPRIETOR of a good London Suburban Chemist's Business is willing to dispose of his Business to a sound company, with position on directorate. Apply 59/21, Office of this Paper.

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APPRENTICE.—Well-educated boy required; outdoors; small salary paid. Apply "Stamp," 29 High Street, Hampstead.

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ASHTEAD, SURREY.—Wanted, lady Assistant; some experience Dispensing and Counter work; easy hours; comfortable berth. Apply Gibbins, Chemist, High Street.

AYLESBURY.—Unqualified Assistant (outdoors) for Light Dispensing and brisk Light Retail; good class; bright, modern business; easy hours; closing seven o'clock, Thursdays one o'clock; no Sunday duty. Usual particulars to Ashford, Chemist, Aylesbury.

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BIRMINGHAM.—Manager, qualified, wanted, at once, for branch; state experience, salary required. Apply 36/3, Office of this Paper.

BIRMINGHAM.—Junior Assistant wanted; unqualified. Apply J. W. Bland, 318 Moseley Road.

BIRMINGHAM.—Junior Lady or Gent (immediately), for at least one year; must have good Counter experience; N.H.I.; easy hours and prospects. Particulars to F. H. Johnson, Pharmacist, 112 Lozells Road.

LANCASHIRE, progressive and healthy town.—Unqualified Assistant required; good experience in the Photographic side essential; single man preferred. State age, details of experience (particularly photographic), and salary required, 58/13, Office of this Paper

LIVERPOOL.—Assistant, about 40, required for quick Cash Retail business; one used to medium-class trade; chiefly for counter. Application from local man, same age, for about four hours daily, from 4 to 8 p.m., also considered; letters only in first instance, stating salary. Prebbles, Ltd., Dispensing Chemists, Kensington, Liverpool.

LIVERPOOL.—Wanted (at once), capable Junior Assistant (male) for brisk city business. Apply, stating age, height, salary, and references, to John Bain, 4 Quadrant, Lime Street, Liverpool.

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LONDON, S.E. (suburban).—Junior or Improver, age about 20, for quick Cash Retail and Photographic; good Window-dresser; state whether lady or gentleman, experience, and salary required outdoors; 55½ working hours weekly; no Sunday duty. Apply 58/11, Office of this Paper.

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LONDON, W.—Qualified Assistant as Dispenser. Apply, stating full particulars of experience, age, and height, to Roberts & Co., 76 New Bond Street, W. 1.

MANCHESTER.—Unqualified Assistant required for good-class Pharmacy; must be competent, reliable, and accurate Dispenser; Photography knowledge an advantage. Please give full details to "Graham" (58/26), Office of this Paper.

MANCHESTER. Capable Junior for brisk, good-class Light Retail and Dispensing business. Apply, with full particulars of experience, age, and salary required, to J. S. Breese, Pharmaceutical Chemist, Rusholme.

NEWPORT, MON.—Unqualified Junior for Stock and Counter; very suitable berth for young man just out of apprenticeship. 58/130, Office of this Paper.

ROYAL Sussex County Hospital, Brighton.—Qualified Male Assistant Dispenser required, with Hospital experience preferred. Apply, giving age and all usual particulars, forwarding copies of recent testimonials or references, and stating salary required, to the Secretary, from whom any information may be obtained. Immediate temporary assistance is required pending permanent appointment.

STAFFORDSHIRE.—Qualified Chemist to manage branch business with some Insurance Dispensing; no Sunday or night duty; easy hours; liberal commissions; applicants must send full particulars of past experience, stating age and salary required. Martyn's Stores, Ltd., Wolverhampton.

TUNBRIDGE WELLS.—Wanted, young, energetic, qualified Manager (at once) for small shop in busy neighbourhood; good house over, newly decorated; knowledge of Photography preferred; permanent and progressive. Full details and salary required (photo returnable) to A. Wood, 17 Calverley Road, Tunbridge Wells.

WOOLWICH.—Assistant for Drug and Surgical Stores, with knowledge of Dentistry and Optics; male and female Assistant already kept; established 1895; permanency for suitable man; if married, must reside in easy distance, as house accommodation is scarce. Furnish references, experience, salary and commission expected, to "S.E." (36/7), Office of this Paper.

W. 1.—REQUIRED (immediately), a first-class man, with good knowledge of foreign Prescriptions and Preparations. Apply 60/18, Office of this Paper.

A SENIOR, unqualified Assistant required; 35-40; live Salesman, modern Counterman, and Window-dresser; for quick Cash middle-class business; preference to one with experience in a Retail Pharmacy; abstainer; permanency for right man. Particulars of experience, references, and salary required, together with photograph, to 61/1, Office of this Paper.

ASSISTANT Dispenser required; lady preferred; Thursday evening, 6-8 p.m.; Sunday evening, 7-9 p.m. Apply "Dr. K.," 23 High Street, Stepney, E. 1.

BRANCH Manager; qualified; good opening for good man; living accommodation if married; state age, height, experience, salary required, give references, and send photo if possible. Cragg, 214 Arkwright Street, Nottingham.

IMPROVER, or one having been in the business a short while, and wishing to gain further experience, would suit; easy hours. Apply Rex & Co., 37 Berners Street, W.

JUNIOR Assistant wanted for Counter and Dispensing, beginning of April; short hours; outdoors. State age and salary required to Ostler & Co., Chemists, Rochester, Kent.

MANAGER for branch; qualified, reliable, and used to good-class Dispensing and Photographic business; comfortable berth; permanency; nice house; share of profits; work to start on March 25th. Kirkman, New Milton, Hants.

PART-TIME Assistant for one evening a week and half-day Saturday; qualified preferred; must be accustomed to quick cash business; Earlsfield district; state terms and full particulars of experience, etc. Apply 57/29, Office of this Paper.

PHARMACIST required by small, progressive Limited Company, to manage branch; Stores experience; energetic, capable; highest references; salary £5 weekly and free house; 60 miles from London; must be prepared to take financial interest on condition that Company take over same if agreement is terminated. Full particulars, "Company" (59/7), Office of this Paper.

QUALIFIED Chemists wanted for London Retail business; applicants must be intelligent, energetic, and resourceful; also a knowledge of Photography and Optics; highest references required; London residence necessary. Apply 60/2, Office of this Paper.

SENIOR Salesman; Retail Perfumery and Toilet Products; must be well-educated gentleman, of good appearance, tall, age 30 to 40, and accustomed to interviewing best class of customers; good salary and permanency. Apply in first instance, in writing, to "M. F.," 6 New Burlington Street, W. 1.

UNQUALIFIED Assistant for Drug Stores, branch, speci and proprietary business; hours 9 to 9; permanent prospective situation; fair salary to good man; permanent s tion. Hulme's, Chemist, Nottingham.

WANTED (at once), an Assistant for first-class Retail Dispensing. Apply, stating age, height, qualifications, salary required, enclosing photo if possible, to 34/36, Offi this Paper.

WANTED (at once), Junior Assistant; first-class exper in Dispensing essential. Apply, with full particula to references, experience, and salary, and enclose photo (t returned), to Jeeves & Son, Chemists, Kemp Town, Bright

WANTED (at once), an Assistant for good-class Retail, pensing, and Photographic business; hours 8.30 a.m 7 p.m., Saturdays 8 p.m. Full particulars, with salary req to Wilson Hill, M.P.S., Westgate-on-Sea, Thanet.

YOUNG lady Assistant required for Counter and Dispe Apply, with particulars as to age, experience, and s required (in- or out-doors), Brown, 186 Mare Street, Hac E. 8.

WHOLESALE.

A LONDON Wholesale house have a vacancy on their of representatives for a gentleman possessing an int knowledge of the Pharmaceutical trade, Wholesale and R preferably with sound connections in South-West England appointment is reserved for an energetic and able Sale who can furnish satisfactory evidence of capability to pr business. Write in first instance, giving age, experience, q cations, and salary, to "F." (11/2), Office of this Paper.

ASSISTANT required as Wet and Dry Counter Hand in S room of a well-known Chemistry House in Kingsway n bourhood; must have had similar experience. Write, statin experience, and salary required, E. (P.C.B. 44/38), Office o Paper.

BOOKKEEPER wanted (either sex), thoroughly experience accurate; £3 weekly to commence. Letters only, Dai & Co., Manufacturing Chemists, 41 High Street, Harrow-o Hill.

DRUGGISTS' Sundries.—Competent Stockkeeper req ire Manchester Wholesalers; knowledge Brushware and sundries; if capable would be encouraged to assist in b or selling, or both. Reply in confidence, stating experienc salary required, 204/110, Office of this Paper.

EXPERIENCED man, to take charge of distributing goo branches, manufacturing proprietaries, and control pa staff; only competent man, neat and systematic, and not of work, need apply. Cofman's Ltd., 6 Bloomsbury S London, W.C. 1.

EXPORT.—Gentleman, having thorough knowledge of Dru Chemical Export trade, will find remunerative propo for spare time. Write "G. H. T.," c/o Streets, 30 Cornhill, E

FOREWOMAN required for Packing-room for Toilet Pr tions. Write full particulars, Robartes, Ltd., 1 Buildings, Holborn Bars, E.C.

HANDY man required for general work in Laboratory manufacturing Toilet preparations. Robartes, Ltd., 1 Buildings, Holborn Bars, E.C.

LABORATORY Second Hand, used to pans and stills; chester district; wages 60s.; state particulars and ences. Apply P.C.B. 44/21, Office of this Paper.

OPENING for young gentleman with connection Expor Home Chemical trade as Traveller. Applications, in w only, stating age, experience, salary required, Ralph L. & Co., Ltd., 21 Harp Lane, E.C. 3.

PERFUMERY and Toilet Preparations.—Manchester Hou quires Manager, male or female, capable of taking d mental charge. Reply in confidence, stating experience and required, 204/11, Office of this Paper.

REPRESENTATIVE wanted for South Wales and the of England by a firm manufacturing Packed Drugs, articles, and numerous sundries; good connection; salary an stantial commission paid. Apply 36/21, Office of this Pap

REPRESENTATIVES required for London, Eastern Cou Surrey, Berks, and Oxon, on commission basis, to sell Soaps, Perfumery, Dyes, etc. State particulars of other carried, ground covered, age, etc., to Robert W. Phillips, Craven House, Kingsway, London, W.C. 2.

REPRESENTATIVES wanted for South Wales and We England, Yorkshire and Lancashire, and London, connection amongst Chemists and Stores, for good-selling and Proprietary lines; salary and commission. Apply 20 Office of this Paper.

REQUIRED, Representative to call regularly on Pharmacists, etc., by a firm of Manufacturing Chemists with established onnection in London and throughout the provinces. Apply, ating full particulars, and also ground covered, articles accusomed to handle, etc., 26/4, Office of this Paper.

REPRESENTATIVES required, calling on Manufacturing Chemists, Manufacturers of Toilet Preparations, such as oth Pastes, Powders, etc., and others using a high-class white ader and filler. Address, giving references and stating ground overed and full particulars regarding connection, etc., to the hitehill Co., St. Austell, Cornwall.

REQUIRED, experienced Celluloid Varnish Maker, to work in spare time; replies treated strictly confidential. 57/28, Office this Paper.

SURGICAL Instrument Showroom; Junior Assistant; 50s.; with knowledge of Surgical Instruments. Apply P.C.B. 44/6, ffice of this Paper.

TOILET Preparations.—Young lady for Packing, Bottling, Capping, Finishing-off first-class work; some experience essential. pply A. Fisher & Co., 345 Archway Road, Highgate, N.

TRAVELLER required by well-known manufacturers of high-class Toilet Soaps, etc.; must have good connection amongst Retail Chemists in Kent and Sussex or Middlesex and London. Write full details of age, experience, and salary required, "Soaps" 199/65), Office of this Paper.

WANTED, Representative for a first-class Wholesale Chemists' Sundry business for South Wales and the Midlands. Apply 28/18, Office of this Paper.

WANTED, Representative for first-class Wholesale Chemists' Sundry business for Liverpool. Apply 28/180, Office of this Paper.

WANTED, by a Yorkshire firm of Manufacturing Chemists, an Assistant and Understudy to the Manager of Warehouse nd Despatch Department; one who has served his time, or therwise experienced in the Drug-trade preferred. Apply, giving ge, wage required, experience, and references, to 61/4, Office f this Paper.

WANTED (at once), to carry Tablets, Toilets, and Packed Lines, really smart Representative for London; applicant ust have strong connection in City and West End and be able o influence orders by personal acquaintance with Chemists; alary and liberal commission to good man. Apply White Band Manufacturing Co., Ltd., Croydon.

WANTED, by leading firm of Soapmakers, Chemists, Representatives to carry lines suitable for Pharmacy and Perfumery trade. Apply, stating age, experience, and territory overed, to 5/1C., Office of this Paper.

WELL-KNOWN Proprietary Remedy firm in London requires a first-class Salesman to call on and sell goods in large uantities to Chemists in London; also one for the North of ngland; this is no so-called "snip," calling as it does for eady, hard work and sterling salesmanship; liberal remuneration paid to men of enthusiasm, energy, and foresight, able to rove their worth; prospects thereafter are distinctly good, but nless you are a sales-compelling Salesman please do not waste ur time or ours by writing. Write fully, in strict confidence, ith following particulars: Age, married or single, permanent sidence, previous experience—both peace time and war time, reuneration expected to commence, and other information condered essential. Address in first instance, Salesman, Box 132, shby Service Agency, Ltd., 44 Rathbone Place, London, W. 1.

WORKING Manager, qualified preferred, wanted for Pharmaceutical Laboratory of Wholesale house in Scotland. State ge, experience, and salary expected, to 57/33, Office of this aper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

FAR EAST.—A qualified Assistant, not over 30 years of age; must have had experience in first-class Retail and Dispensing usiness; good salary for the right man; passage paid out and me, on a four years' agreement. Address 58/18, Office of this aper.

JAPAN.—Qualified Assistant required for important European Pharmacy in Kobe; four years' agreement; second-class assage paid out and home. Particulars of salary upon applition to M.H. Export Department, S. Maw, Son & Sons, Ltd., 7-12 ldersgate Street, E.C.

ITALY.—Required, an experienced, qualified Chemist, with a thorough knowledge of Pharmacy, also of Stookkeeping, Ordering, Costing, etc., to assist in general management of a large high-class Pharmacy; must be neat, orderly, thoroughly systematic, and have good business ideas; previous Continental experience an advantage but not indispensable; unmarried preferred; state age and full experience, with salary required, and enclose photo, which will be returned. Apply 28/26, Office of this Paper.

PARIS.—Qualified Assistant; knowledge of French and Continental experience; outdoors; short hours; no Sunday or night duty; state age, experience, references, and salary required in first letter; permanency, with good prospects, for suitable man; send photograph, which will be returned. Roberts & Co., 5 Rue de la Paix, Paris.

STRAITS SETTLEMENTS.—Young Assistant, unmarried, with Chemist's qualification, a good knowledge of Optics desirable; four years' agreement; passage paid out and home; salary first year £420, second and third years £455, fourth year £490. Apply 140/34, Office of this Paper.

U.S.A.—PRICHARD & CONSTANCE, Incd., 48 Warren Street, New York City, require an Assistant Chemist for junior control of New York factory; qualified; age 22 to 30; good education; strong constitution; salary fifty dollars a week to commence. Apply by letter in first instance to Mr. T. W. Theakston, c/o Prichard & Constance, Ltd., 57 Haymarket, London.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A1 CAPABLE Assistant; single, tall; 25 years' high-class Store and Dispensing, London experience; disengaged March 2nd. "W. H.," 168 Heathfield Road, Handsworth, Birmingham.

A LADY Dispenser, five years' London references, experienced in institution and medical practice, disengaged March 5th; Hall certificate. Replies to 7 Hallswelle Road, Golders Green, N.W. 4.

A LADY Dispenser (Apothecaries Hall) desires post with Doctor or Chemist; has small capital to invest in business; five years' experience in Doctor's practice; excellent testimonials. Apply 59/32, Office of this Paper.

A QUALIFIED Chemist, with exceptional London Managerial and Buying experience, requires position in good-class business; Home Counties or South Coast preferred; at liberty; permanency, with reasonable progressive salary. Apply P.C.B. 45/7, Office of this Paper.

ACTIVE, competent Assistant or Locum; Counter, Dispenser, Prescriber. 19 Rockmount Road, S.E. 19.

ADVERTISER desires temporary position till April 17th, and then Locum work from early in May. Reply to 36/4, Office of this Paper.

AS Locum; experienced; take charge; disengaged; booking dates. Apply 28/21, Office of this Paper.

AS qualified Manager or Assistant; disengaged; 20 years' experience; permanency or Locum. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

AS Locum; highest references; well recommended; disengaged; now booking forward. "Beta," 74 West Hill, East Putney, London, S.W. 15.

AS Manager or Senior; outdoors; qualified; experienced in Wholesale, Retail, and Photography; disengaged; London or suburbs. "Major," 3 East Dulwich Grove, S.E.

ASSISTANT, 21, unqualified, with five years' Dispensing experience, desires post; three years' high-class Counter and Dispensing experience; last two years Dispenser at large Military Hospital; undeniable references. Apply, stating salary prepared to offer, and hours, etc., to W. J. Owen, 6 Bangor Street, Carnarvon, North Wales.

ASSISTANT; unqualified; Counter, Dispensing, and Window-dressing; good references; disengaged; town and country experience. Apply 57/31, Office of this Paper.

ASSISTANT (managing); unqualified; thoroughly competent and reliable; excellent references; 40, married; London or suburbs; S.W. district preferred. "Alpha," 41 Selwyn Avenue, Richmond, Surrey.

ASSISTANT; qualified; 25; good-class Dispensing, Counter, and Photographic experience. S. Chapman, 23 Rookfield Road, Maswell Hill, N. 10.

ASSISTANT; unqualified; chiefly N.H.I. Dispensing, Counter; age 50; disengaged for demobilised man taken back; please state salary; London only. "Hodie," 15 Fletching Road, Clapton, E. 5.

ASSISTANT; Dispensing, Photographic; 15 years' experience; late Dispenser V.D. Hospital, near London. State salary, etc., to "Chemicus," 1 Gaston Villas, Elmgrove Road, Weybridge.

ASSISTANT (21) desires situation in Blackpool, St. Anne's, or Lytham; good Counter, Photographic, and Dispensing experience; energetic and willing; height 5 ft. 8 in.; good references. "Essen," 58 Chesterfield Road, Blackpool.

ASSISTANT; unqualified; permanent or Locum; 20 years Dispenser, Counter; disengaged March 14th. Apply 58/30, Office of this Paper.

ASSISTANT or Dispenser (unqualified), 35, married, experienced, energetic, good references, requires post, Doctor, Chemist, or Institution. Particulars, etc., 58/34, Office of this Paper.

ASSISTANT; energetic, trustworthy; over 14 years' experience in high-class Dispensing and Counter work; excellent references; could take charge if required. "C. T." (59/36), Office of this Paper.

ASSISTANT or Manage; experienced; elderly; abstainer; disengaged; moderate terms. "Four," Central Hotel, High Street, Sheffield.

ASSISTANT; unqualified; 28; married; good-class Dispensing and Counter experience; energetic and willing; disengaged. "A. L.," Wilder, Gwynne Road, Upper Parkstone, Dorset.

ASSISTANT; unqualified; 12 years' experience; Birmingham preferred. Farley, 31 Riland Road, Sutton-Coldfield.

ASSISTANT, unqualified, disengaged, desires summer engagement; age 26; 11 years' experience; thoroughly competent; Lancashire or Yorkshire. Lawson, Eden Park, Lancaster.

ASSISTANT or manage small business; experienced Counterman and Dispenser; smart; highest references from Chemists and Doctors; state salary. Apply Wallace, Hospital, Long Preston, Yorks.

ASSISTANT; unqualified; abstainer; demobilised; 8 years' pre-war experience country Dispensing, Photography, etc.; country preferred; last post 5½ years; any distance. Apply 60/12, Office of this Paper.

ASSISTANT (lady), Hall certificate, desires part-time engagement, London district; first-class experience and references. Apply 59/23, Office of this Paper.

CAPABLE Assistant, unqualified, 35, desires permanency or Locum; Dispenser, Counterman; recent testimonials; town and country experience. "Statim," 6 Nightingale Mansions, S.W. 12.

DISENGAGED; whole or part-time daily or one or two whole days weekly; Minor man. "Pharmacist," 4 Lynton Avenue, West Ealing, W.

DISPENSER, lady, Hall, experienced, Doctors and Institution, desires post; Institution preferred. "Dispenser" (56/20), Office of this Paper.

DISPENSER (lady) desires post; 3 years' Military and pre-war experience in Hospital and private practices; Bookkeeping; near London preferred; state salary. Apply 59/5, Office of this Paper.

DISPENSER (Hall), lady; experienced Hospital, Institution, and Surgery; excellent testimonials; in or near London. Apply 59/4, Office of this Paper.

DISPENSER-BOOKKEEPER (lady), Hall certificate, desires post with Doctor, Hospital, Dispensary; London or suburbs; well educated; good testimonials. Apply "Statim" (56/14), Office of this Paper.

DISPENSER-MASSEUSE (certificated) desires post from 19th April; Institution or Doctor's; 8 years' experience; highest testimonials; free evenings preferred; in or near London. "S.," 81 Altenburg Gardens, Clapham Common, S.W.

ELDERLY, experienced Chemist, business man, as Manager; town or country branch; Locum or permanency; reliable; references. Apply 60/38, Office of this Paper.

EVENINGS and Saturday and Sunday duty; experienced; can take charge; languages. Apply 36/9, Office of this Paper.

EVENINGS from 5.30, Saturdays from 3, or all day if required; Minor Student; 35; thoroughly capable and experienced; five years' Continental; Counter or Dispensing; terms moderate. "Student," 97 Bedford Road, Clapham.

EVENINGS from 6.30; London; good appearance; all-round pre-war experience, including West-End and Continent. "M.P.S.," 200 Marylebone Road, N.W. 1.

EVENINGS.—Dispenser requires engagement; used to N.H.I. P.C.B. 45/5, Office of this Paper.

EVENINGS, Saturdays Half-day, and Sundays; thoroughly experienced; smart, neat, quick Dispenser; good Counter Salesman. G., 122 Scott-Ellis Gardens, St. John's Wood, N.W.

EXPERIENCED in all branches; single; 5 ft. 10 in.; 12 years London; disengaged March 2nd. "W. H.," 168 Heathfield Road, Handsworth, Birmingham.

EXPERIENCED, unqualified Assistant; permanency; London only; can manage. Write W. P., 72 Tremadoc Road, Clapham, S.W.

EXPERIENCED Dispenser (Hall) wishes to book engagement for summer locums; Doctors, Hospitals, or Institutions; excellent references. Miss Redfern, 6 Arundel Gardens, London, W. 11.

EXPERIENCED Minor, open to part-time post. "Spes," 5 Beauchamp Road, Clapham Junction.

LADY Assistant (unqualified) desires post with Chemist; Counter and Dispensing; five years' experience. "E. R.," Appleton Road, Bitterne Park, Southampton.

LADY Dispenser (Hall, Senior Oxford Certificate) requires post; North-East Coast preferred. Apply "Walker," 2 Devonshire Road, Linthorpe, Middlesbrough.

LADY Dispenser (Hall), experienced, requires post; excellent references; Doctor or Institution preferred. Grant, 1 Willow Vale, Frome, Somerset.

LADY Dispenser (Hall), experienced, desires post with Doctor, Chemist, or Institution, in or near Ipswich; disengaged April. P.C.B. 44/32, Office of this Paper.

LADY Dispenser (Hall) desires post with Chemist or Doctor; excellent testimonials. A. Fry, Moorlynch, Bridgwater.

LADY Dispenser (Hall), experienced, desires part-time post; mornings or afternoons only. "F. L.," 50 Durlston Road, Clapton, E. 5.

LADY Dispenser-Bookkeeper; Hall; experienced; Doctor or Institution. Apply 54/36, Office of this Paper.

LADY Dispenser-Bookkeeper (Hall) desires post with Doctor; country or town; experienced; excellent references. Miss Ayton, 177 Gleneldon Road, Streatham, S.W. 16.

LADY, Hall, experienced, desires post in Liverpool. Apply 28/30, Office of this Paper.

LADY, tall, good appearance, good Saleswoman, desirous of qualifying, seeks position in good-class business, or partnership; capital £600. Write 59/39, Office of this Paper.

LOCUM; qualified; 30 years' wide experience Pharmaceutical and Hospital; disengaged; moderate terms; bookings for season invited; London or provincial. M. Smith, 56 Salisbury Road, Smethwick, Birmingham.

LOCUM, disengaged, booking forward; elderly; thoroughly experienced. Apply "Statim" (56/12), Office of this Paper.

LOCUM; thoroughly experienced; Major; exceptional references; abstainer. Dear, 111 Royal Parade, Eastbourne.

LOCUM, disengaged April and after September; qualified; terms moderate; 53; country; first-class experience and references; Photography, Optics. Dewey, 4 Montague Gardens, Wallington, Surrey.

LOCUM work required for two, four, or six weeks; free now; qualified; first-class references and experience. "Chemist," 27 Manor Road, South Norwood, S.E. 25.

LOCUM, well recommended; splendid references; Spring terms £3 10s. per week; fare both ways, London. "Statim" (59/800), Office of this Paper.

LOCUM or Temporary; experienced, capable, reliable; highly recommended; disengaged. "M.P.S.," 32 Allandale Road, Leicester.

LOCUM, qualified, thoroughly experienced, disengaged for next four weeks. "Statim," 54 King Street, Whitehaven.

MANAGER; qualified; disengaged; married; Locum or permanency; long experience all branches; good Prescriber; smart Window-dresser; town or country. D. O. C., 26 Fox Hill, S.E. 19.

MANAGER or Locum; qualified; disengaged; 25 years' first-class experience West End and provinces; excellent references. Parker, 9 Endsleigh Street, W.C. 1.

MANAGER, Drug Stores; enterprising; excellent references; highly recommended; real good experience London and provinces. "Virol" (59/80), Office of this Paper.

ANAGER; qualified; single; disengaged; temporary or permanent; good experience Counter, Dispensing, Photography, rt time *pro. tem.* "Beta," 9 Grantbridge Street, Islington, .1.

ANAGER, Drug Store or otherwise; unqualified; excellent experience and capable of increasing returns; share or lary; London. A. (59/16), Office of this Paper.

IDLANDS.—Assistant; unqualified (23); tall; 8 years' experience Counter, Dispensing, Photography; good Salesman; ergetic. H. L., 24 May Street, Edgewick, Coventry.

ART-TIME Dispensing post required by young lady; experienced. Write "Miss R.," Epfos, Chemists, 60 Jermyn reet, Piccadilly, S.W.

HARMACIST; Minor; 48; demobilised; 5 years Sergt.-Dispenser R.A.M.C.; experienced; temporary or permanent. Statim," 172 Albany Street, N.W.

HARMACIST, 49, experienced in all branches, as Senior Assistant or Dispenser; abstainer; moderate salary. J. T. E. 5/16), Office of this Paper.

HARMACIST, with 18 years' first-class experience, seeks position as Manager; good references; neglected business t objected to; applicant would be willing to accept an appointnt with a view to succession. 60/24, Office of this Paper.

HARMACIST seeks change; knowledge of French. H. B., 219 Hackney Road, E. 2.

HARMACIST, used to complete control of large business, including buying, seeks similar position; highest references. pply, 60/11, Office of this Paper.

HARMACIST, whose business premises won't be ready until end of April, desires Locum work; S. Wales preferred; easy ns. "Orion" (60/35), Office of this Paper.

UALIFIED lady Chemist, experienced, competent, reliable, quick, desires post; Locum or permanent. Apply 58/1, ce of this Paper.

UALIFIED Manager, Assistant, or temporary seeks engagement; many years' experience; town preferred; disengaged. ckett, 4 St. Andrew's Square, Surbiton.

UALIFIED, 43, disengaged; abstainer; permanency; single; experienced Manager; London; £6. Apply 58/35, Office this Paper.

UALIFIED lady Dispenser desires post in London; no Sunday or evening work, except Friday or Saturday. E., 135 ufort Street, Chelsea, S.W.

UALIFIED; 33; single; Manager, preferably with view to succession; first-class experience; advertiser is well known, an opportunity occurs to obtain a man on whom full confice and responsibility can be placed; highest references and lentials. Apply 60/30, Office of this Paper.

UALIFIED, 37, recently demobilised, requires situation in good-class Retail and Dispensing business. Slayter, 45 per Street, Northampton.

UALIFIED (married, no family) seeks Management good business; Dispensing, Optical, Photographic; permanency pred. "Chemist," 82 Chapel Field Road, Norwich.

UALIFIED; 35; disengaged; temporary or permanent; experienced; reliable. "Carolus," 98 Greyhound Lane, Streat- S.W.

UALIFIED Pharmacist, 30, tall, single, abstainer, requires position as Manager (in April); first-class Dispenser and criber; knowledge of Photography; Yorkshire preferred. y 59/28, Office of this Paper.

HOSPITALS, INSTITUTIONS.—Proprietor of Chemist's business can thoroughly recommend qualified Dispenser who timately associated with the usual routine of Hospital work. y in first instance to "Accurate," 43 Bailey Street, Luton,

NQUALIFIED Assistant; Counter, Windows, Photo expert, etc. W. E. Carter, 33 Chancellors Road, Hammersmith,

QUALIFIED; 39; experienced Dispenser, Counterman, and Photography; disengaged. "G." (59/15), Office of this

UNG lady, aged 19, with about three years' experience, would like situation with Chemist or Doctor as Dispenser; and accurate, and Hall qualification; North London, City, West-End preferred; interview. Apply "M. H.," Norfolk e, Danvers Road, Hornsey, N. 8.

UNG lady, aged 20, desires post with Chemist; 4 years' experience; accustomed to General Counter trade and N.H.I. nsing; Birkenhead or Liverpool district preferred. Apply Office of this Paper.

UNG Lady desires re-engagement; fully experienced in Counter trade and good knowledge of N.H.I. Dispensing. 23 Hawley Square, Margate.

WHOLESALE.

ADVERTISER requires position in Works as Manager or Assistant; Pills, Tablets, Lozenges, Pastilles, Fluid Drugs, Packed Goods, and Toilet Products; good organiser, control staff, introduce new lines; good knowledge of machinery; age 30; married. Apply 61/6, Office of this Paper.

ADVERTISER (27), experienced Retail, desires post as Representative; sound knowledge Retail requirements; keen, active, real hustler. McIntyre, 14 Gilbert Road, Bromley, Kent.

ANALYTICAL Chemist, fully qualified, first-rate experience, highest testimonials, holding good position, seeks London appointment. R. P. G. (59/11), Office of this Paper.

ASSISTANT; Laboratory experience, Ointments, Embrocations, Tinctures, Extracts, Emulsions, Stock, Checking, requires situation. Apply 58/31, Office of this Paper.

CAPABLE, age 31, demobilised, desires responsible position; 16 years' all-round Wholesale experience; good references; steady, reliable. Apply 58/29, Office of this Paper.

CHEMIST (33) offers his services to an up-to-date house; first-class experience in both Wholesale and Retail; a thorough knowledge of sales organisation and all forms of publicity; at present Chemist-in-charge large Packed Goods Department of Manufacturing Chemists; well known throughout the trade; organiser of proved abilities; able and experienced in the control of labour. Apply 60/300, Office of this Paper.

EXPERIENCED qualified Pharmacist, 40, disposing of his Retail business in April, desires responsible position with Wholesale house; preferably as Representative in London. "Pelmanist" (58/19), Office of this Paper.

MANUFACTURING Wholesale.—Lady, Pharmaceutical Chemist, long experience Manufacturing, especially Toilet Preparations, Perfumes, etc., desires responsible position; expert in producing new lines, costing, quoting, and buying; experienced Manager of Packing and Finishing Departments. Apply 60/39, Office of this Paper.

PILL-MAKER, Tablet-maker, Coater, or any capacity Wholesale house, London district; 18 years' experience Wholesale Manufacturing. Newnham, 29 Herbert Street, Kentish Town, N.W.

REPRESENTATIVE or indoors; qualified man wishful to represent good house; has London connection. Apply 35/1, Office of this Paper.

REPRESENTATIVE, with good connection amongst Chemists in Yorkshire, is open to represent first-class Drug house or well-advertised Proprietaries. Apply 56/23, Office of this Paper.

REPRESENTATIVE, with good connection, Wholesale and Retail, seeks position with a first-class house; experience, references, salary, expenses, and commission. Apply P.C.B. 45/3, Office of this Paper.

SALES and Advertising Manager (35), experienced in Proprietaries, wants change with more scope; present firm choked with orders and unwilling to expand; moderate salary and payments by results; can earn a large income, and requires opportunity of securing it; progressive firms only. Apply "N. M. R." (55/2), Office of this Paper.

SALES or Advertising Manager, qualified; experienced with Proprietaries; salary £600; highly recommended. P.C.B. 45/2, Office of this Paper.

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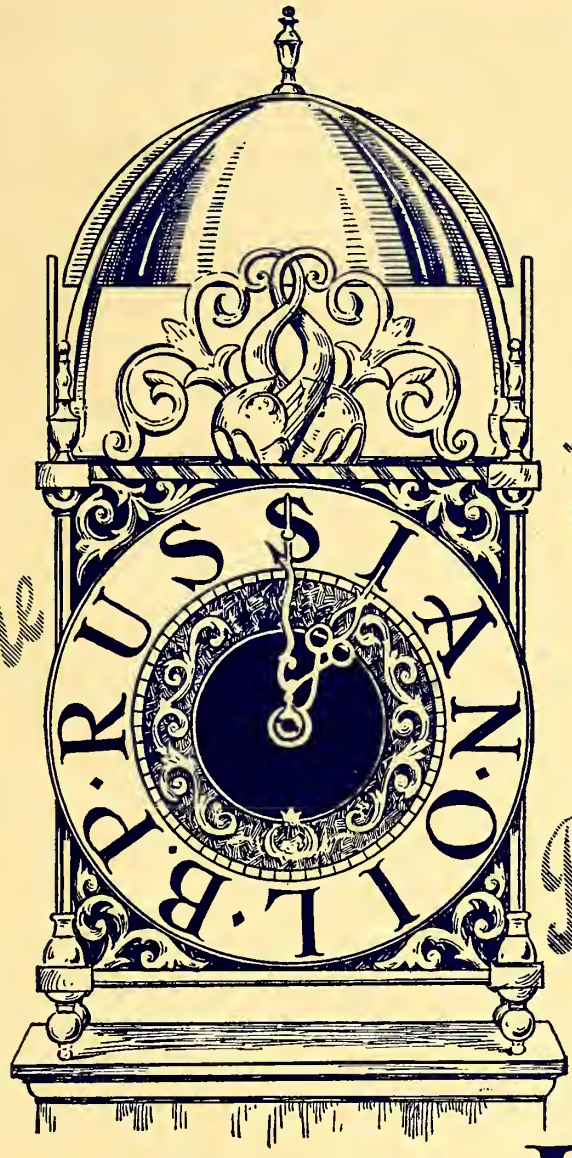

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